WRDC-TR-90-8007
Volume VIII
Part 44

INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume VIII - User Interface Subsystem
Part 44 - Electronic Documentation System (EDS) Document Formatter Unit Test Plan

S. Barker, F. Glandorf

Control Data Corporation
Integration Technology Services
2970 Presidential Drive
Fairborn, OH 45324-6209

September 1990

Final Report for Period 1 April 1987 - 31 December 1990

MANUFACTURING TECHNOLOGY DIRECTORATE
WRIGHT RESEARCH AND DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433-6533

NOTICE

When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, regardless whether or not the government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data. It should not, therefore, be construed or implied by any person, persons, or organization that the Government is licensing or conveying any rights or permission to manufacture, use, or market any patented invention that may in any way be related thereto.

This technical report has been reviewed and is approved for publication.

This report is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations

DAVID L. JUDSON, Project Manager
WRDC/MTI
Wright-Patterson AFB, OH 45433-6533

25 July 91
DATE

FOR THE COMMANDER:

BRUCE A. RASMUSSEN, Chief
WRDC/MTI
Wright-Patterson AFB, OH 45433-6533

25 July 91
DATE

If your address has changed, if you wish to be removed form our mailing list, or if the addressee is no longer employed by your organization please notify WRDC/MTI, Wright-Patterson Air Force Base, OH 45433-6533 to help us maintain a current mailing list.

Copies of this report should not be returned unless return is required by security considerations, contractual obligations, or notice on a specific document.

REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified	1b. RESTRICTIVE MARKINGS
2a. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for Public Release; Distribution is Unlimited.
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) UTP620344905	5. MONITORING ORGANIZATION REPORT NUMBER(S) WRDC-TR- 90-8007 Vol. VIII, Part 44
6a. NAME OF PERFORMING ORGANIZATION Control Data Corporation; Integration Technology Services 6b. OFFICE SYMBOL *(if applicable)*	7a. NAME OF MONITORING ORGANIZATION WRDC/MTI
6c. ADDRESS *(City, State, and ZIP Code)* 2970 Presidential Drive Fairborn, OH 45324-6209	7b. ADDRESS *(City, State, and ZIP Code)* WPAFB, OH 45433-6533
8a. NAME OF FUNDING/SPONSORING ORGANIZATION Wright Research and Development Center, Air Force Systems Command, USAF 8b. OFFICE SYMBOL *(if applicable)* WRDC/MTI	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUM. F33600-87-C-0464
8c. ADDRESS *(City, State, and ZIP Code)* Wright-Patterson AFB, Ohio 45433-6533	10. SOURCE OF FUNDING NOS.
11. TITLE *(Include Security Classification)* SEE BLOCK 19	PROGRAM ELEMENT NO. 78011F; PROJECT NO. 595600; TASK NO. F95600; WORK UNIT NO. 20950607
12. PERSONAL AUTHOR(S) Structural Dynamics Research Corporation: Barker, S., Glandorf, F.	
13a. TYPE OF REPORT Final Report	13b. TIME COVERED 4/1/87 - 12/31/90
14. DATE OF REPORT *(Yr.,Mo.,Day)* 1990 September 30	15. PAGE COUNT 153
16. SUPPLEMENTARY NOTATION WRDC/MTI Project Priority 6203	

17. COSATI CODES			18. SUBJECT TERMS *(Continue on reverse if necessary and identify block no.)*
FIELD	GROUP	SUB GR.	
1308	0905		

19. ABSTRACT *(Continue on reverse if necessary and identify block number)*

This unit test plan establishes the methodology and procedure to be used to test the capabilities of the Electronic Documentation System (EDS) MacPaint to Postscript computer program.

Block 11 - INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)

Vol VIII - User Interface Subsystem

Part 44 - Electronic Documentation System (EDS) Document Formatter Unit Test Plan

20. DISTRIBUTION/AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED x SAME AS RPT. DTIC USERS	21. ABSTRACT SECURITY CLASSIFICATION Unclassified
22a. NAME OF RESPONSIBLE INDIVIDUAL David L. Judson	22b. TELEPHONE NO. *(Include Area Code)* (513) 255-7371 22c. OFFICE SYMBOL WRDC/MTI

FOREWORD

This technical report covers work performed under Air Force Contract F33600-87-C-0464, DAPro Project. This contract is sponsored by the Manufacturing Technology Directorate, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Bruce A. Rasmussen, Branch Chief, Integration Technology Division, Manufacturing Technology Directorate, through Mr. David L. Judson, Project Manager. The Prime Contractor was Integration Technology Services, Software Programs Division, of the Control Data Corporation, Dayton, Ohio, under the direction of Mr. W. A. Osborne. The DAPro Project Manager for Control Data Corporation was Mr. Jimmy P. Maxwell.

The DAPro project was created to continue the development, test, and demonstration of the Integrated Information Support System (IISS). The IISS technology work comprises enhancements to IISS software and the establishment and operation of IISS test bed hardware and communications for developers and users.

The following list names the Control Data Corporation subcontractors and their contributing activities:

SUBCONTRACTOR	ROLE
Control Data Corporation	Responsible for the overall Common Data Model design development and implementation, IISS integration and test, and technology transfer of IISS.
D. Appleton Company	Responsible for providing software information services for the Common Data Model and IDEF1X integration methodology.
ONTEK	Responsible for defining and testing a representative integrated system base in Artificial Intelligence techniques to establish fitness for use.
Simpact Corporation	Responsible for Communication development.
Structural Dynamics Research Corporation	Responsible for User Interfaces, Virtual Terminal Interface, and Network Transaction Manager design, development, implementation, and support.
Arizona State University	Responsible for test bed operations and support.

TABLE OF CONTENTS

Figures

SECTION 1

GENERAL

1.1 Purpose

This Unit Test Plan (UTP) establishes the methodology and procedures used to adequately test the capabilities of the computer program identified as the EDS Document Formatter. The Document Formatter is one configuration item of the Integrated Information Support System (IISS) Electronic Documentation System (EDS).

1.2 Project References

[1] Systran, ICAM Documentation Standards , IDS150120000C, 5 September 1983.

[2] International Organization for Standardization, Information Processing - Text and Office Systems - Standard Generalized Markup Language (SGML) , ISO 8879, 15 October 1986.

[3] International Organization for Standardization, Office Document Architecture/Office Document Interchange Format , ISO/DP 8613/1-6, October 1985 (Draft).

[4] American National Standards Institute, American National Standard for Information Systems - Computer Graphics - Metafile for the Storage and Transfer of Picture Description Information , ANSI X/3.122-1986, August 27, 1986.

[5] Structural Dynamics Research Corporation, Form Processor User's Manual , UM 620244200A, 16 February 1987.

[6] Structural Dynamics Research Corporation, Virtual Terminal Operator Guide , OM 620244000A, 16 February 1987.

[7] M.E. Lesk, LEX - Lexical Analyzer Generator, IS Workbench

for VAX/VMS Programmers Guide .

[8] Structural Dynamics Research Corporation, Form Processor Development Specification , DS 620244700A, 16 February 1987

1.3 Terms and Abbreviations

American Standard Code for Information Interchange (ASCII) : The character set defined by ANSI x3.4 and used by most computer vendors.

Attribute : A characteristic used to qualify an element within a document.

Character Set : A mapping of a character repertoire onto a code set such that each character is associated with its coded representation.

Compound Document : A document which may contain mixed content (text, graphics, etc.).

Computer Graphics Metafile (CGM) : A standard file format for the storage and retrieval of picture description information.

Computer Program Configuration Item (CPCI) : An aggregation of computer programs or any of their discrete portions, which satisfies an end-use function.

Conforming SGML Application : An SGML application that requires documents to be conforming SGML documents, and whose documentation meets the requirements of this International Standard.

Context-Directed Editor : An EDS application which guides the user through the process of document creation and revision by using the document type definition as a model for which logical elements may be included in the document.

Descriptive Markup : Information added to a document that

enables an application program to process the document.

Document Type Definition (DTD) : Rules determined by an application that apply SGML to the markup of documents of a particular type. A document type definition includes a formal specification, expressed in a document type declaration, of the element types, element relationships and attributes, and references that can be represented by markup. It thereby defines the vocabulary of the markup for which SGML defines the syntax. A DTD can also include comments that describe the semantics of elements and attributes, and any application conventions.

Electronic Documentation System (EDS) : An integrated set of software tools and application programs which operate upon a document through various stages of a document life cycle consisting of editing (creating/revising), formatting, imaging, storage, and transfering.

Element : A component of the hierarchical structure defined by a document type definition; it is identified in a document instance by descriptive markup, usually a start-tag and end-tag.

Element Declaration : A markup declaration that contains the formal specification of the part of an element type definition that deals with the content and markup minimization.

Entity : A collection of characters that can be referenced as a unit.

Entity Declaration : A markup declaration that assigns an SGML name to an entity so that it can be referenced.

Entity Reference : A reference that is replaced by an entity.

Field : Two-dimensional space on a terminal screen.

Form : A structured view which may be imposed on windows or other forms. A form is composed of fields. These fields may be

defined as forms, items, or windows.

Form Definition (FD) : Form definition Language after compilation. It is read at run-time by the Form Processor.

Form Definition Language (FDL) : The language in which electronic forms are defined.

Form Editor (FE) : A subset of the IISS User Interface that is used to create definitions of forms. The FE consists of the Forms Driven Form Editor and the Forms Language Compiler.

Form Hierarchy : A graphic representation of the way in which forms, items, and windows are related to their parent form.

Form Language Compiler (FLAN) : A subset of the FE that consists of a batch process that accepts a series of form definition language statements and produces form definition files as output.

Form Processor (FP) : A subset of the IISS User Interface that consists of a set of callable execution-time routines available to an application program for form processing.

Forms Driven Form Editor (FDFE) : A subset of the FE which consists of a forms-driven application used to create Form Definition files interactively.

Generic Identifier : A name that identifies the element type of an element.

IISS Function Screen : The first screen that is displayed after logon. It allows the user to specify the function to access and the device type and device name on which to work.

Integrated Information Support System (IISS) : A test computing environment used to investigate, demonstrate, and test the concepts of information management and information integration in the context of Aerospace Manufacturing. The IISS

addresses the problems of integration of data resident on heterogeneous data bases supported by heterogeneous computers interconnected via a Local Area Network.

Item : A non-decomposable area of a form in which hard-coded descriptive text may be placed and the only defined areas where user data may be input/output.

Layout Style : The specification of format and presentation for logical elements.

Layout Structure : The hierarchy of all layout elements (pages, frames, blocks, etc.) for a document.

Logical Structure : The hierarchy of all logical elements (paragraphs, sections, etc.) within a document.

Markup : Text that is added to the data of a document in order to convey information about it.

Markup Minimization : A feature of SGML that allows markup to be minimized by shortening or omitting tags, or shortening entity references.

Message : Descriptive text which may be returned in the standard message line on the terminal screen. Messages are used to warn of errors or provide other user information.

Message Line : A line on the terminal screen that is used to display messages.

Operating System (OS) : Software supplied with a computer which allows it to supervize its own operations and manage access to hardware facilities such as memory and peripherals.

Page : Instance of forms in windows that are created whenever a form is added to a window.

Paging and Scrolling : A method which allows a form to

contain more data than can be displayed at one time with provisions for viewing any portion of the data buffer.

Parser : An application program that determines how closely a document conforms to a document type definition which defines a specific documentation standard.

Physical Device : A hardware terminal.

Previous Cursor Position : The position of the cursor when the previous edit command was issued.

Qualified Name : The name of a form, item, or window preceded by the hierarchy path so that it is uniquely identified.

Standard Generalized Markup Language (SGML) : A language for describing document structures, consisting of descriptive markup which is added to a document to indicate where logical elements such as sections and paragraphs begin and end.

Subform : A form that is used within another form.

Tag : Descriptive markup indicating the start or end of a logical element.

Tagger : An application program which provides a mechanism for automatically tagging existing documents which have been created by word processing systems.

User Interface (UI) : IISS subsystem that controls the user's terminal and interfaces with the rest of the system. The UI consists of two major subsystems: The User Interface Development System (UIDS) and the User Interface Management System (UIMS).

User Interface Management System (UIMS) : The run-time UI. It consists of the Form Processor, Virtual Terminal, Application Interface, the User Interface Services, and the Text Editor.

User Interface Services (UIS) : A subset of the IISS User Interface that consists of a package of routines that aid users in controlling their environment. It includes message management, change password, and application definition services.

User Interface/Virtual Terminal Interface (UI/VTI) : Another name for the User Interface.

Virtual Terminal (VT) : A subset of the IISS User Interface that performs the interfacing between different terminals and the UI. This is done by defining a specific set of terminal features and protocols which must be supported by the UI software which constitutes the virtual terminal definition. Specific terminals are then mapped against the virtual terminal software by specific software modules written for each type of real terminal supported.

Virtual Terminal Interface (VTI) : The callable interface to the VT.

Window : Dynamic area of a terminal screen on which predefined forms may be placed at run-time.

Window Manager : A facility which allows the following to be manipulated: size and location of windows, the device on which an application is running, the position of a form within a window. It is part of the Form Processor.

SECTION 2

DEVELOPMENT ACTIVITY

2.1 Statement of PreTest Activity

During system development, the computer programs were tested progressively. Functionality was incrementally tested, and as bugs were discovered by this testing, the software was corrected.

The Document Formatter produces output based on parameters defined by the EDS Layout Editor. As formatting parameters were added to the Layout Editor, the functionality added to the system by these parameters were implemented in the Document Formatter (see Section 3 for more information). The functionality was then tested to check that the Layout Editor parameters were implemented correctly in the Document Formatter and that the correct results were produced based on the parameter values.

As each feature was added to the Formatter, a Unit Test Procedure was created to individually test this feature. In addition, test documents were created that tested multiple features of the Document Formatter.

All pretest activity was conducted by the individual developer in a manual mode. The developer would ran Unit Test Plans and test documents through the Formatter and manually inspected the output document. Based on the parameter values defined by the Layout Editor and the content of the input document, the developer could determine if the program had formatted the document correctly. Any errors were noted by the developer, and corrections to the Document Formatter were then made. The Unit Test Plan or test document were then re-run to insure that the program was correct.

2.2 Pretest Activity Results

The results of the pretest activity were that most of the coding errors were discovered prior to the release date. By using the Electronic Documentation System to produce all the Unit Test Plans for EDS application programs, a number of minor errors were uncovered that would have only shown up in the production of complex multipage documents.

SECTION 3

SYSTEM DESCRIPTION

3.1 System Description

The EDS Document Formatter (DF) reads an SGML tagged document and uses formatting information contained in a document profile (produced by the Layout Editor) to determine the layout style of logical elements delimited within a document by SGML tag names (generic identifiers).

The Document Formatter outputs Postscript language statements that instruct a Postscript compatible output device how and where to put a logical element on the physical page. The Formatter must also determine when the input text overflows a page and a new page must be started. All Postscript commands are written to an output file that can then be kept on disk and/or sent to an output device for printing.

The DF also processes references to external graphic and text files that can be inserted at specific places within the logical document.

The DF uses a forms-based front end to accept parameters from the user that define input/output files, document profile, and parameterized print options including the name of the output device to send the formatted document to.

The following block diagrams illustrate the Document Formatter Test Configuration used in the Unit Test Plan.

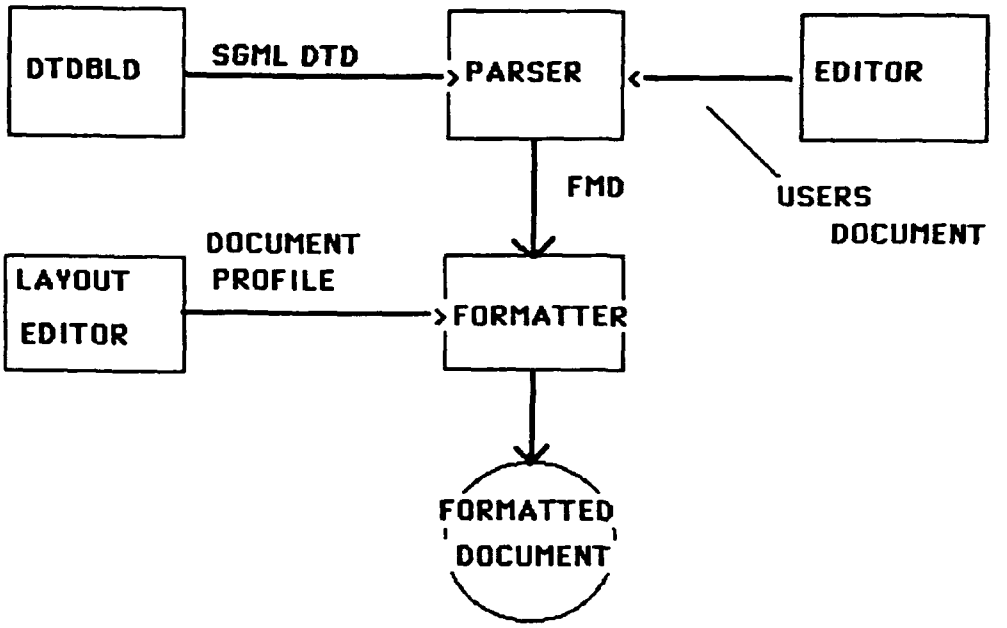

Figure 3-1 EDS Block Diagram

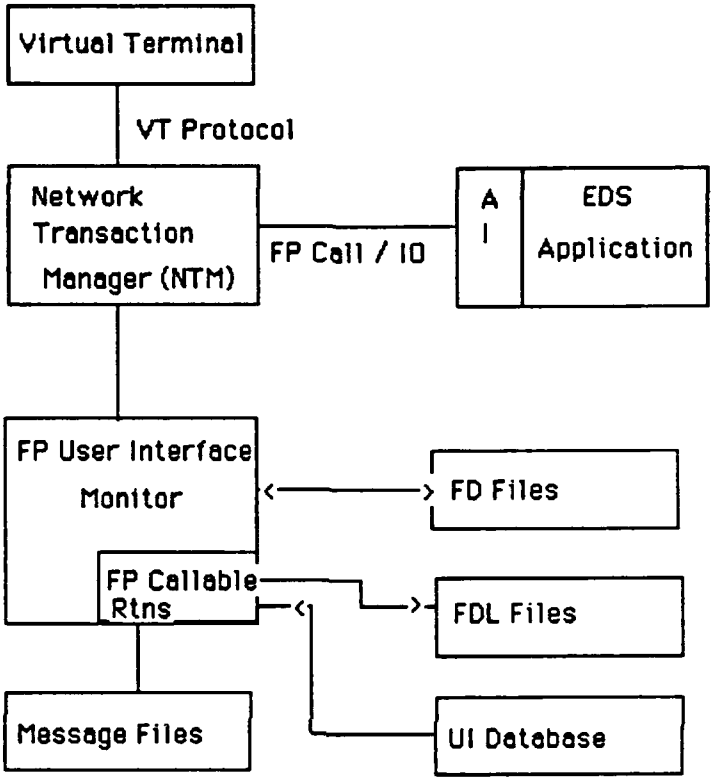

Figure 3-2 UI Interface Block Diagram

3.2 Testing Schedule

Since EDS application programs use the Forms Processor (FP) and the Network Transaction Manager (NTM) subsystems, both the FP and NTM must be tested before any EDS application program Unit Test Plans can be run.

The execution of the Document Formatter is dependent upon the EDS Layout Editor and the SGML Parser. Testing of the DF should be done only after the Layout Editor and the Parser have been sucessfully tested.

3.3 First Location Testing

These tests of the Document Formatter require the following:

Equipment: Air Force VAX, terminals supported by the Virtual Te as listed in the UI Terminal Operator's Guide. An output device Postscript must also be available.

Support Software: the Integrated Information Support System, C libraries.

Personnel: one integrator familiar with both IISS and EDS.

Training: the EDS user manual has been previously provided with the current release.

Deliverables: the EDS Document Formatter CPCI.

Test Materials: All tests may be run interactively by inputting appropriate data and observing the output as outlined in this te A script file has been created to run each part of the test plan the resulting output. A set of document profiles and test docum listed in Section 5.3 is also necessary to run the unit test.

Security Considerations: None.

3.4 Subsequent Location Testing

The requirements listed above must be met. For future tests, script files can be created and used to run the Unit Test Plan.

SECTION 4

SPECIFICATIONS AND EVALUATIONS

4.1 Test Specification

The Unit Test Plan is based on covering specific functionality of the Document Formatter outlined in the Electronic Documentation System Development Specification (DS).

The following chart has the functional requirements as outlined in the EDS DS listed vertically and the Test Ectivities in the UTP that demonstrate the testting of functional requirement listed horizontally.

	Test Codes										
Func. Req.	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
Left/Right Indent	X										
First Line Indent		X									
Hanging Indent			X								
Line Spacing				X							
Leading					X						
Vertical Spacing						X					
Horizontal Spacing							X				
Page Eject								X			
Literal Mode									X		
Noadvance Mode										X	
Word Wrap Mode											X

Figure 4-1 Mapping of DF Positioning Functions with Test Plan

	Test Codes								
Func. Req.	A1	A2	A3	A4	A5	A6	A7	A8	A9
Centering	X								
Right Justify		X							
Full Justify			X						
Font				X					
Font Size					X				
Reverse Video						X			
Italics							X		
Bold								X	
Underline									X

Figure 4-2 Mapping of DF Attribute Functions with Test Plan

Func. Req.	Test Codes										
	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11
MacPaint/EPSF	X										
UI Screen/EPSF		X									
E1 with Border			X								
E1 with Shadow				X							
Fixed (Top)					X						
Fixed (Center)						X					
Fixed (Bottom)							X				
Float								X			
Width/Depth									X		
Text (Literal)										X	
Text (Wrap)											X

Figure 4-3 Mapping of DF Entity Functions with Test Plan

Test Codes

Func. Req.	H1	H2	H3	H4	H5	H6	H7
Header (Both)	X						
Footer (Both)		X					
Page Number			X				
Date				X			
Underline					X		
Center						X	
Right Justify							X

Figure 4-4 Mapping of DF Header/Footer Functions with Test Plan

The steps outlined in Section 5.3 show the completed Document Formatter input form, input test data, and the output document. The following list shows the correspondence between the functional requirements in Figure 4-1 to 4-4, and the input test data, document profile name, and results contained in Section 5.3.

P1 - Figure 5-3 thru Figure 5-5
P2 - Figure 5-6 thru Figure 5-8
P3 - Figure 5-9 thru Figure 5-11
P4 - Figure 5-11 thru Figure 5-14
P5 - Figure 5-15 thru Figure 5-17
P6 - Figure 5-18 thru Figure 5-20
P7 - Figure 5-21 thru Figure 5-23

P8 - Figure 5-24 thru Figure 5-26
P9 - Figure 5-27 thru Figure 5-29
P10 - Figure 5-30 thru Figure 5-32
P11 - Figure 5-33 thru Figure 5-35

A1 - Figure 5-36 thru Figure 5-38
A2 - Figure 5-39 thru Figure 5-41
A3 - Figure 5-42 thru Figure 5-44
A4 - Figure 5-45 thru Figure 5-47
A5 - Figure 5-48 thru Figure 5-50
A6 - Figure 5-51 thru Figure 5-53
A7 - Figure 5-54 thru Figure 5-55
A8 - Figure 5-57 thru Figure 5-59
A9 - Figure 5-60 thru Figure 5-62

E1 - Figure 5-63 thru Figure 5-65
E2 - Figure 5-66 thru Figure 5-68
E3 - Figure 5-69 thru Figure 5-71
E4 - Figure 5-72 thru Figure 5-74
E5 - Figure 5-75 thru Figure 5-77
E6 - Figure 5-78 thru Figure 5-80
E7 - Figure 5-81 thru Figure 5-83
E8 - Figure 5-84 thru Figure 5-86
E9 - Figure 5-87 thru Figure 5-89
E10 - Figure 5-90 thru Figure 5-92
E11 - Figure 5-93 thru Figure 5-95

H1 - Figure 5-96 thru Figure 5-98
H2 - Figure 5-99 thru Figure 5-101
H3 - Figure 5-102 thru Figure 5-104
H4 - Figure 5-105 thru Figure 5-107
H5 - Figure 5-108 thru Figure 5-110
H6 - Figure 5-111 thru Figure 5-113
H7 - Figure 5-114 thru Figure 5-116

Note that the test name is coded in such a way as to segregate certain types of Document Formatter tests. The coding scheme used is as follows:

P - positioning function tests
A - attribute function tests
E - external text and graph references tests
H - header and footer block function tests

4.2 Testing Methods and Constraints

The tests outlined in Section 5.3 must be followed in the correct order. The required input is given for each test. This testing uses the normal mode of operation and does not test every possible code path that may generate an error. It assumes that the files and logical names detailed in Section 5.2 are available when the tests are run. It also assumes a proper IISS environment is available as described in Section 5.2. During the development phase, error reporting due to missing files, incorrect logical names, and improper IISS environments was tested by the developer.

No data recording is required for the Document Formatter tests. It is suggested that upon further running of these tests, scripting of the tests may be done and the output from running the script be saved for future testing. Script files for each Document Formatter Test Ere under Configuration Management and can be used if the tester does not want to manually key the data into the input forms.

The document profiles and input test documents needed to run this Unit Test Plan are listed in Section 5.3. These files are under IISS Configuration Management and must reside on the testers default directory in order for the tests to execute correctly.

No additional constraints are placed on this unit test

besides the those listed in Sections 5.2 and 3.3 of this document.

4.3 Test Progression

The progression of testing of the EDS Document Formatter is fully outlined in Section 5.3 of this Unit Test Plan. This progression should be followed exactly to insure sucessful testing.

4.4 Test Evaluation

The test results are evaluated by comparing the generated output documents with the output documents given in Section 5. The documents should match exactly in every way, except for those documents that reference the current date and time.

SECTION 5

TEST PROCEDURES

5.1 Test Description

A general description of this unit test was provided in Section 3.

5.2 Test Control

As outlined above, this unit test may be done manually or run using supplied script files. In Section 5.3 the required input data is specified for each function being tested, as well as the input test document, the name of the document profile to be used, and the resultant successful output document. The order of testing is also completely specified. The test control information is completely described by the sequence of source input documents, Document Formater input forms, output documents, document profiles, and the test procedures outlined below. The success of each test may be determined by visually inspecting the output documents with those given in Section 5.3.

5.3 Test Procedures

To run the Unit Test Plan as outlined in this section on a VAX, one must be logged onto a valid IISS account. The NTM must be up and running and the UI group logical names IISSFLIB, IISSMLIB, EDSDTLIB, EDSDPLIB, EDSFMLIB, and EDS$PRINT_DEV must be set properly. IISSFLIB points to the directory containing production form defintions (FD files). IISSMLIB points to the form containing error messages (MSG files). EDSDTLIB points to the directory containing document type definitions (DTD files). EDSDPLIB points to the directory containing document profiles (DP files). EDSFMLIB points to the directory containing font metric defintions (AFM files). The logical name EDS$PRINT_DEV is used to specify the name of the print queue where the output document will be printed.

The output device must be able to accept Postscript language statements.

The source input documents and document profiles must be copied to the testers default directory.

Assuming the NTM is up and running, an IISS user may start this Unit Test Plan using the supplied script files as follows:

```
$SET DEFAULT {directory containing your NTM environment}
$VT100 -rEDSFMT.SCP
```

This starts up the VT100 device driver with a source script as input. If the User Interface has been installed at your site with a different device driver, then this step is amended as appropriate. The tests then begin executing at the terminal. Output documents should begin to be printed at the device pointed to by the EDS$PRINT_DEV logical name within the next few minutes.

If the tests are to be executed manually then the following commands should be executed:

```
$SET DEFAULT {directory containing your NTM environment}
$VT100
```

When the IISS Logon Screen (Figure 5-1) is displayed, login to IISS with username/password/role of MORENC/STANLEY/MANAGER.

When the IISS Function Screen (Figure 5-2) is displayed, enter EDSFMT as the specified function and press <ENTER>. This will start the EDS Document Formatter application program.

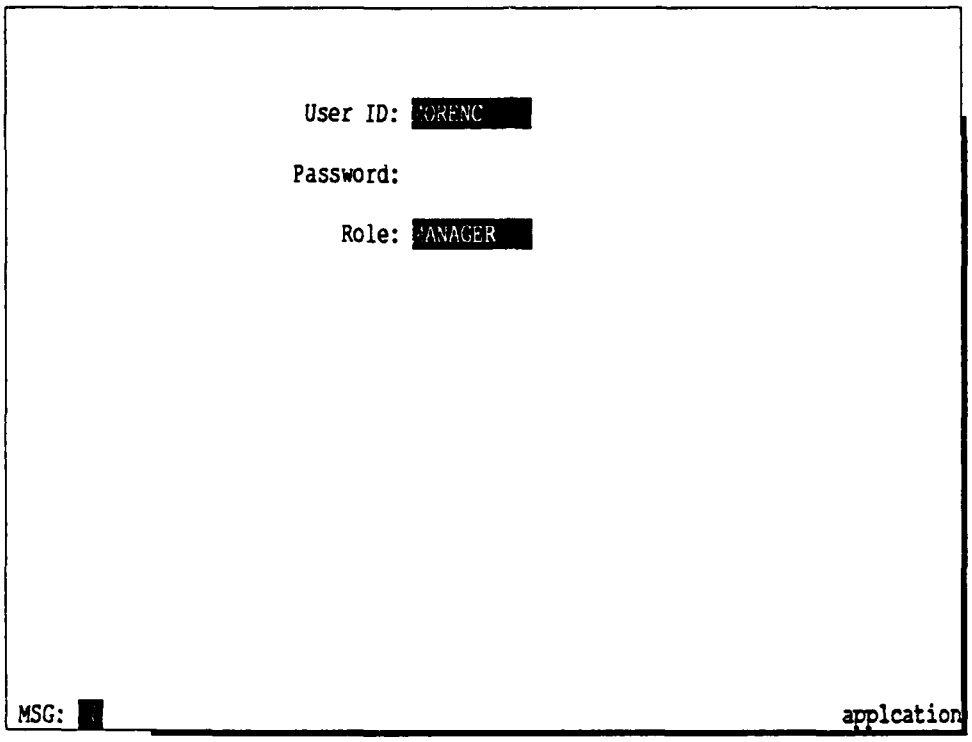

Figure 5-1 IISS LOGON Screen

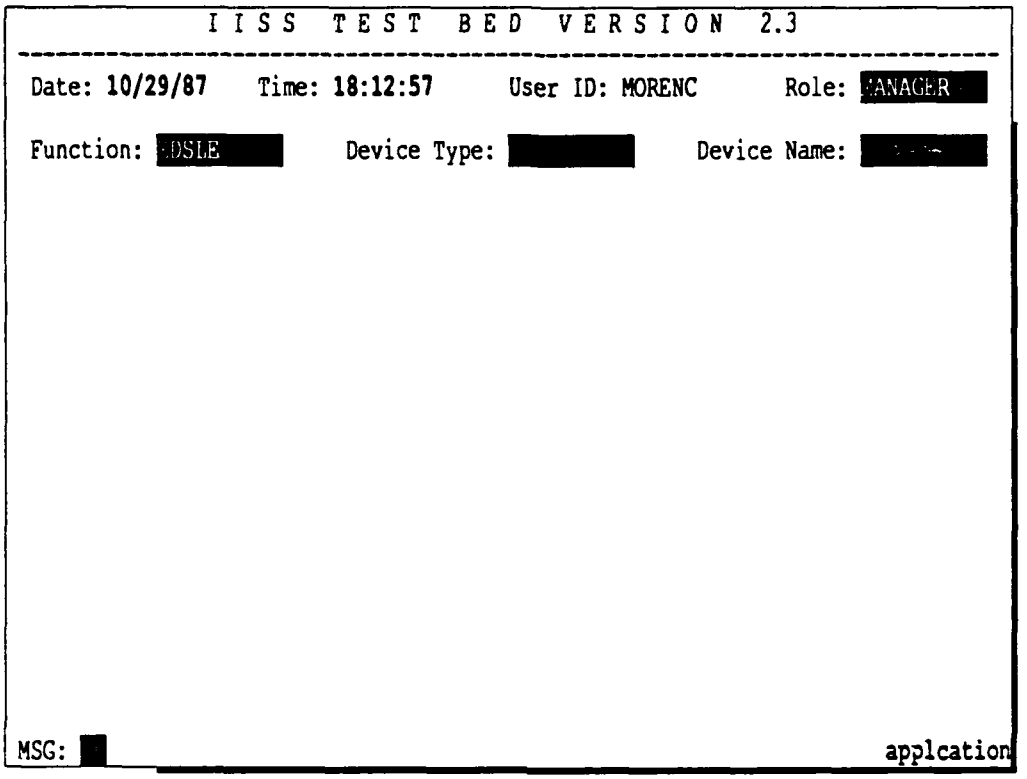

Figure 5-2 IISS FUNCTION Screen

The following is a list of all test input file and document profile names that are needed to run the Document Formatter Unit Test Plan.

Test Name	Input File	Document Profile
A1	FMTA1.CTR	FMTA1
A2	FMTA2.CTR	FMTA2
A3	FMTA3.CTR	FMTA3
A4	FMTA4.CTR	FMTA4
A5	FMTA5.CTR	FMTA5
A6	FMTA6.CTR	FMTA6
A7	FMTA7.CTR	FMTA7
A8	FMTA8.CTR	FMTA8

A9	FMTA9.CTR	FMTA9
P1	FMTP1.CTR	FMTP1
P2	FMTP2.CTR	FMTP2
P3	FMTP3.CTR	FMTP3
P4	FMTP4.CTR	FMTP4
P5	FMTP5.CTR	FMTP5
P6	FMTP6.CTR	FMTP6
P7	FMTP7.CTR	FMTP7
P8	FMTP8.CTR	FMTP8
P9	FMTP9.CTR	FMTP9
P10	FMTP10.CTR	FMTP10
P11	FMTP11.CTR	FMTP11
E1	FMTE1.CTR	FMTE1
E2	FMTE2.CTR	FMTE1
E3	FMTE3.CTR	FMTE1
E4	FMTE4.CTR	FMTE1
E5	FMTE5.CTR	FMTE1
E6	FMTE6.CTR	FMTE1
E7	FMTE7.CTR	FMTE1
E8	FMTE8.CTR	FMTE1
E9	FMTE9.CTR	FMTE1
E10	FMTE10.CTR	FMTE10
E11	FMTE11.CTR	FMTE11
H1	FMTH1.CTR	FMTH1
H2	FMTH2.CTR	FMTH2
H3	FMTH3.CTR	FMTH3
H4	FMTH4.CTR	FMTH4
H5	FMTH5.CTR	FMTH5
H6	FMTH6.CTR	FMTH6
H7	FMTH7.CTR	FMTH7

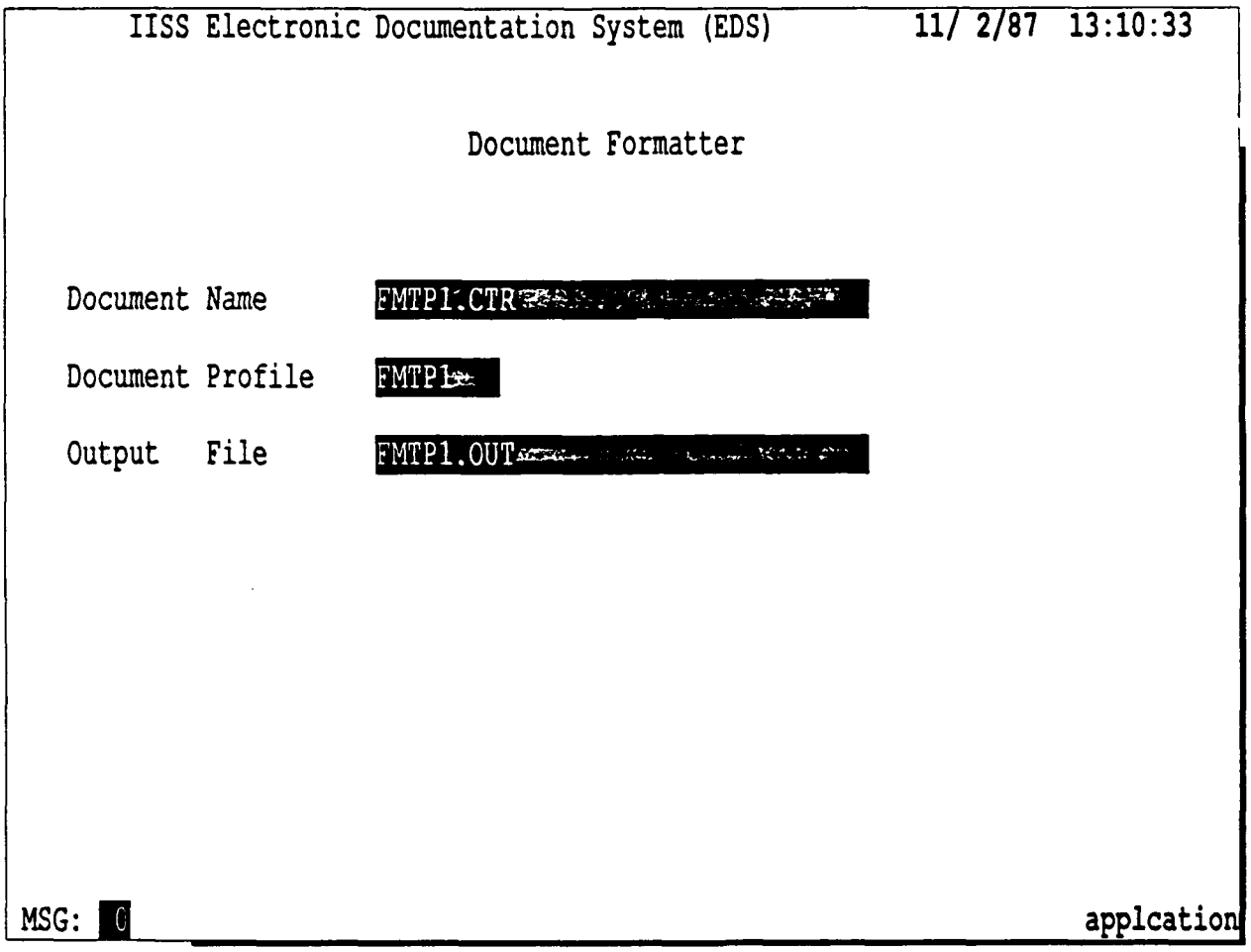

Figure 5-3 Document Formatter Input Form for TEST P1

```
<edsutp>

<test>
<tstnam>[ EDS Document Formatter - (Right/Left Indent Test)</tstnam>
<tstno>Test P1</tstno>
</test>

<p0>This is a cest document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The right and left indent for all paragraphs should be 1.5 inches
from the edge of the page.</p0>

</edsutp>
```

Figure 5-4 Right/Left Indent Test

xxx
x
x

DUMMY

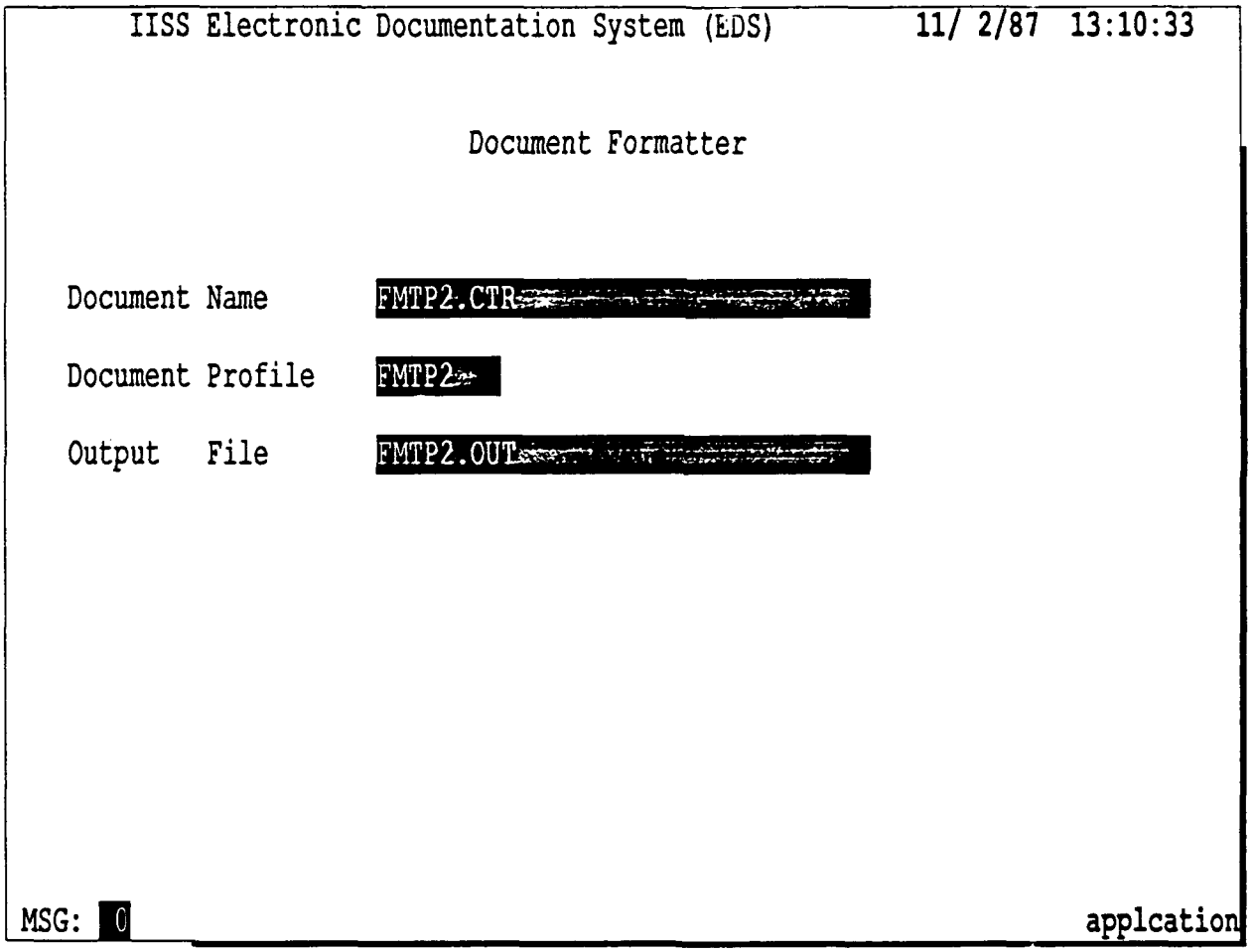

Figure 5-6 Document Formatter Input Form for TEST P2

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (First Line Indent Test)</tstnam>
<tstno>Test P2</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The right and left indent for all paragraphs should be 1.5 inches
from the edge of the page.  The first line of the paragraph should be
indented .5 inches from the rest of the lines in the paragraph.</p0>

</edsutp>
```

Figure 5-7 First Line Indent Test

xxx
x
x

DUMMY

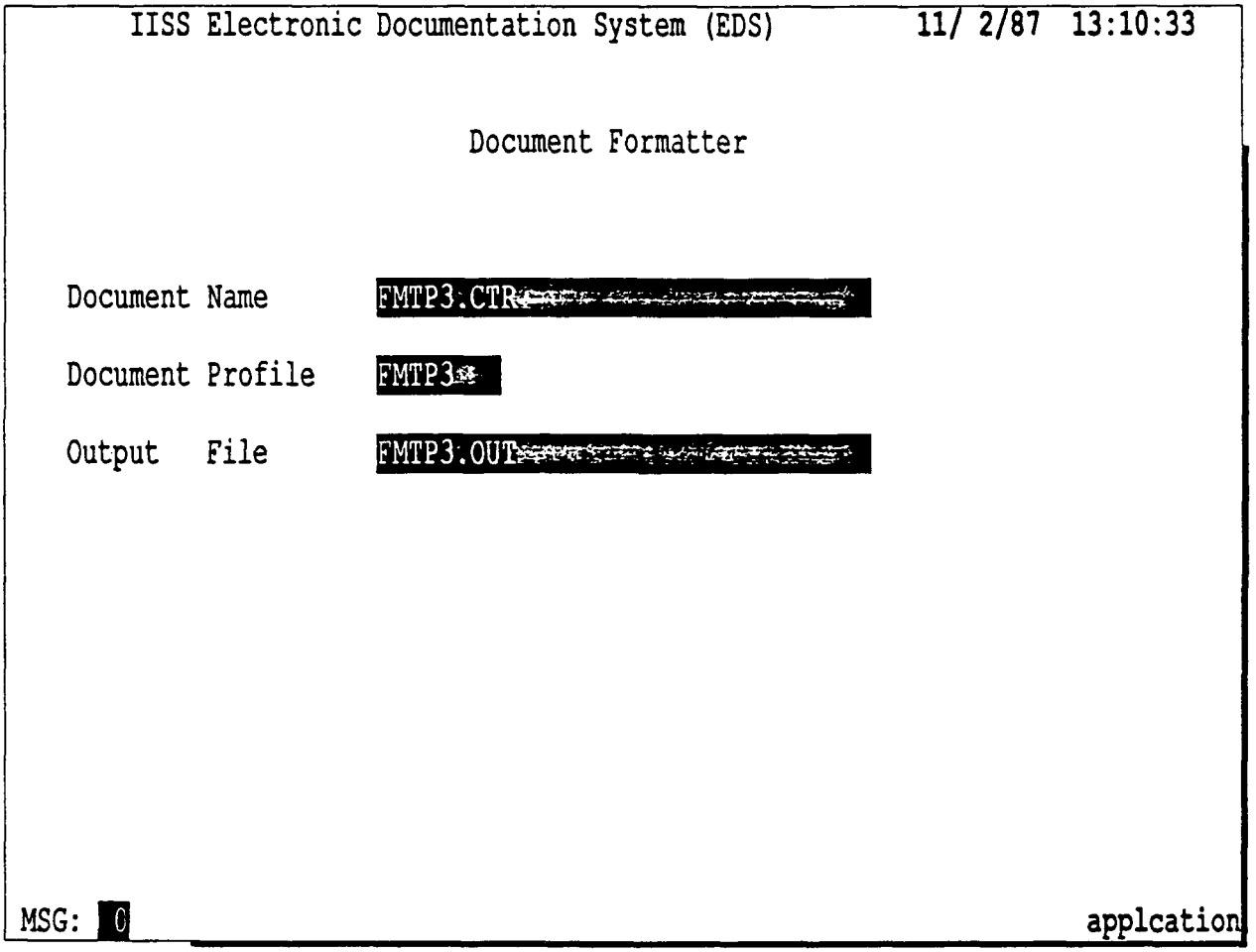

Figure 5-9 Document Formatter Input Form for TEST P3

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Hanging Indent Test)</tstnam>
<tstno>Test P3</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by the EDS application programs.</p0>

<p0>The right and left indent for all paragraphs should be 1.5 inches
from the edge of the page.  All lines except the first line in a
paragraph shpuld be indented .5 inches to the right.</p0>

</edsutp>
```

Figure 5-11 Hanging Indent Test

xxx
x
x

DUMMY

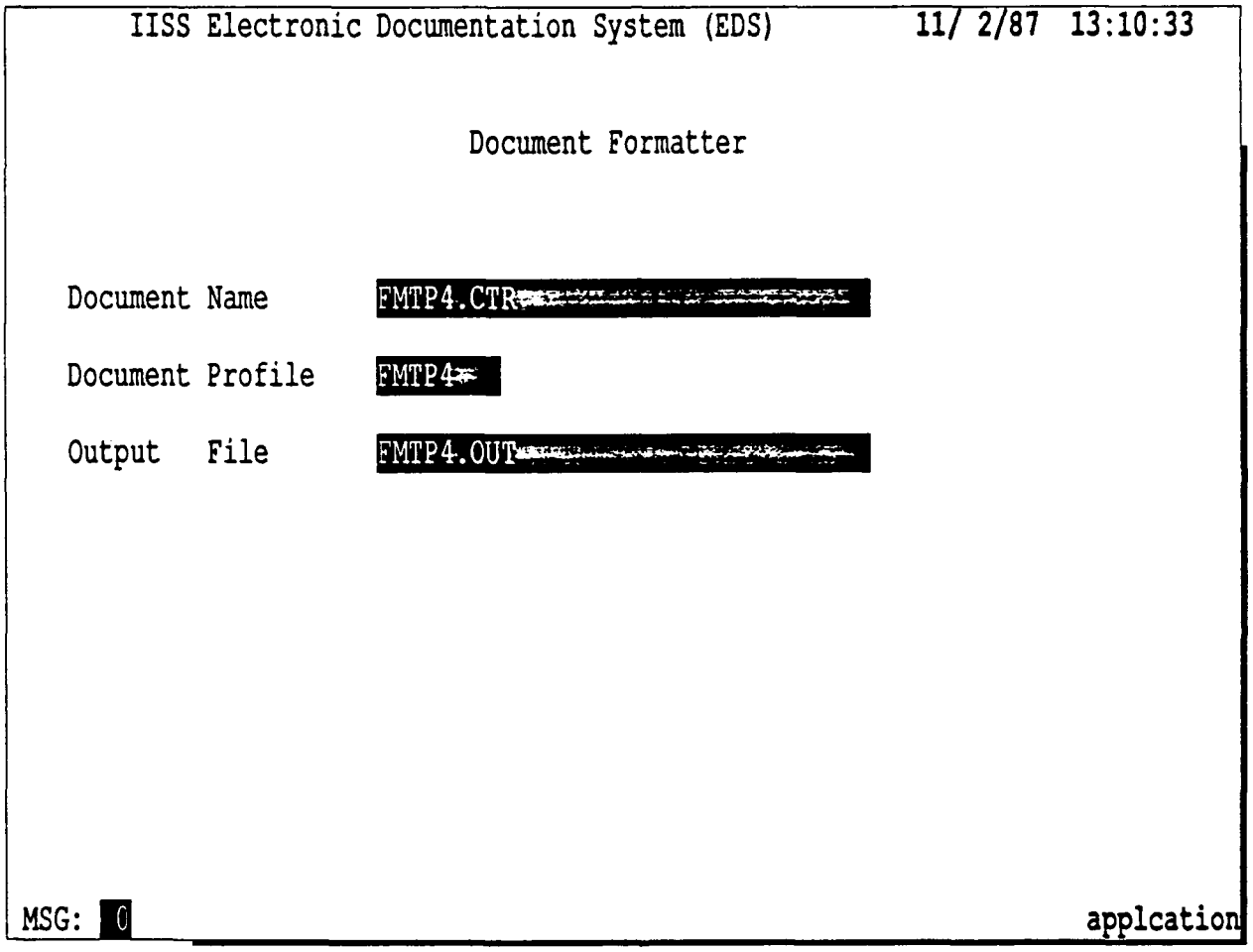

Figure 5-12 Document Formatter Input Form for TEST P4

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Line Spacing Test)</tstnam>
<tstno>Test P4</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by the EDS application programs.</p0>

<p0>This paragraph should be single spaced - one line between each line
of text.  Line spacing is calculated by taking the spacing (single,
double, etc) and multiplying it by the leading.</p0>


<p1>This paragraph should be double spaced - two lines between each line
of text.  Line spacing is calculated by taking the spacing (single,
double, etc) and multiplying it by the leading.</p1>

</edsutp>
```

Figure 5-13 Line Spacing Test

xxx
x
x

DUMMY

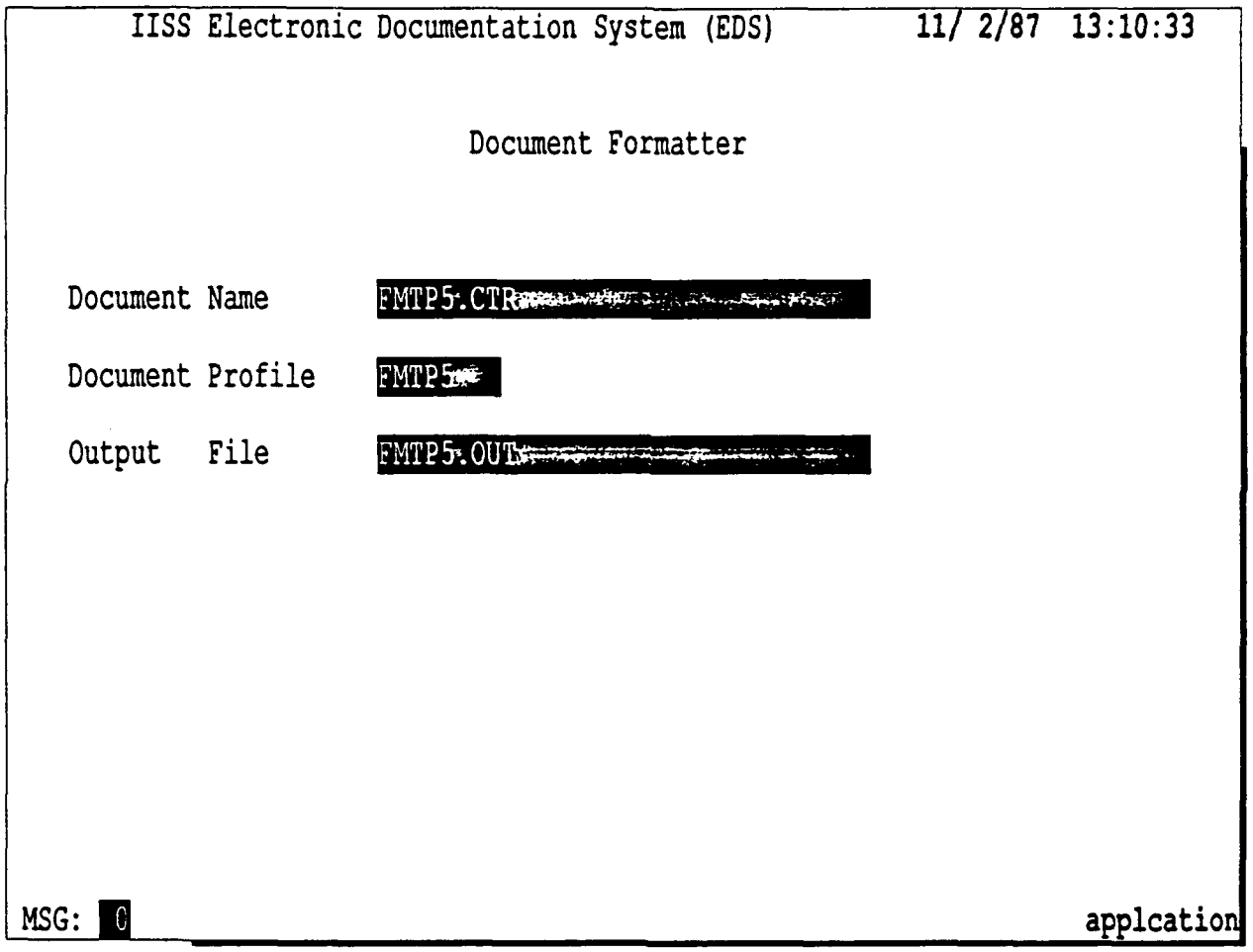

Figure 5-15 Document Formatter Input Form for TEST P5

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Leading Test)</tstnam>
<tstno>Test P5</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by the EDS application programs.</p0>

<p0>The lines in this paragraph will have 14 point leading. Leading is
the amount of space measured between the top of one line to the top of
the line below it.</p0>

<p1>The lines in this paragraph will have 28 point leading. Leading is
the amount of space measured between the top of one line to the top of
the line below it.</p1>

</edsutp>
```

Figure 5-16 Leading Test

xxx
x
x

DUMMY

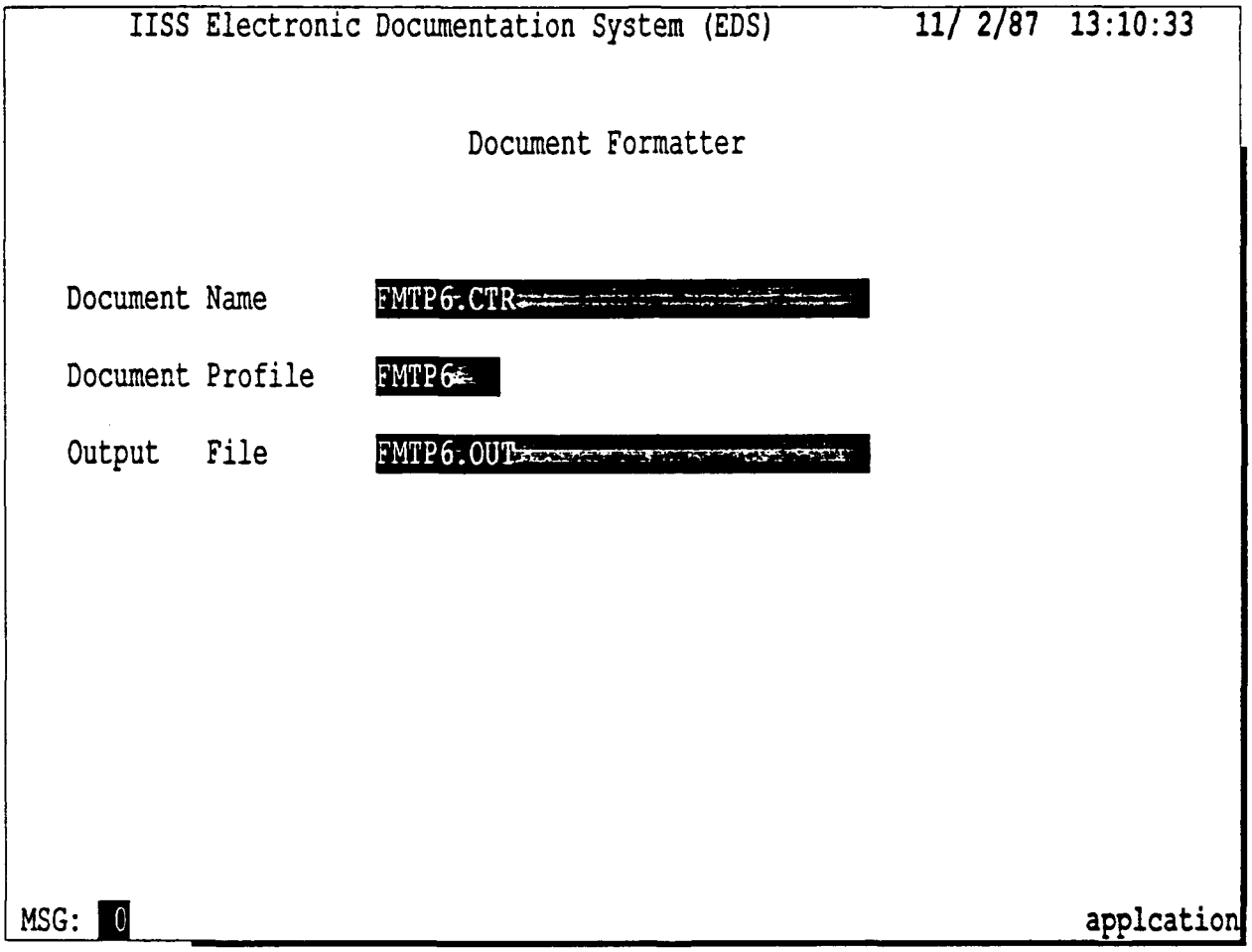

Figure 5-18 Document Formatter Input Form for TEST P6

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Vertical Spacing Test)</tstnam>
<tstno>Test P6</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>There should be 1.0 inches of space between all paragraphs in this
document. This is paragraph number 2.</p0>

<p0>There should be 1.0 inches of space between all paragraphs in this
document. This is paragraph number 3.</p0>

<p0>There should be 1.0 inches of space between all paragraphs in this
document.  This is pargraph number 4.</p0>

</edsutp>
```

Figure 5-19 Vertical Spacing Test

xxx
x
x

DUMMY

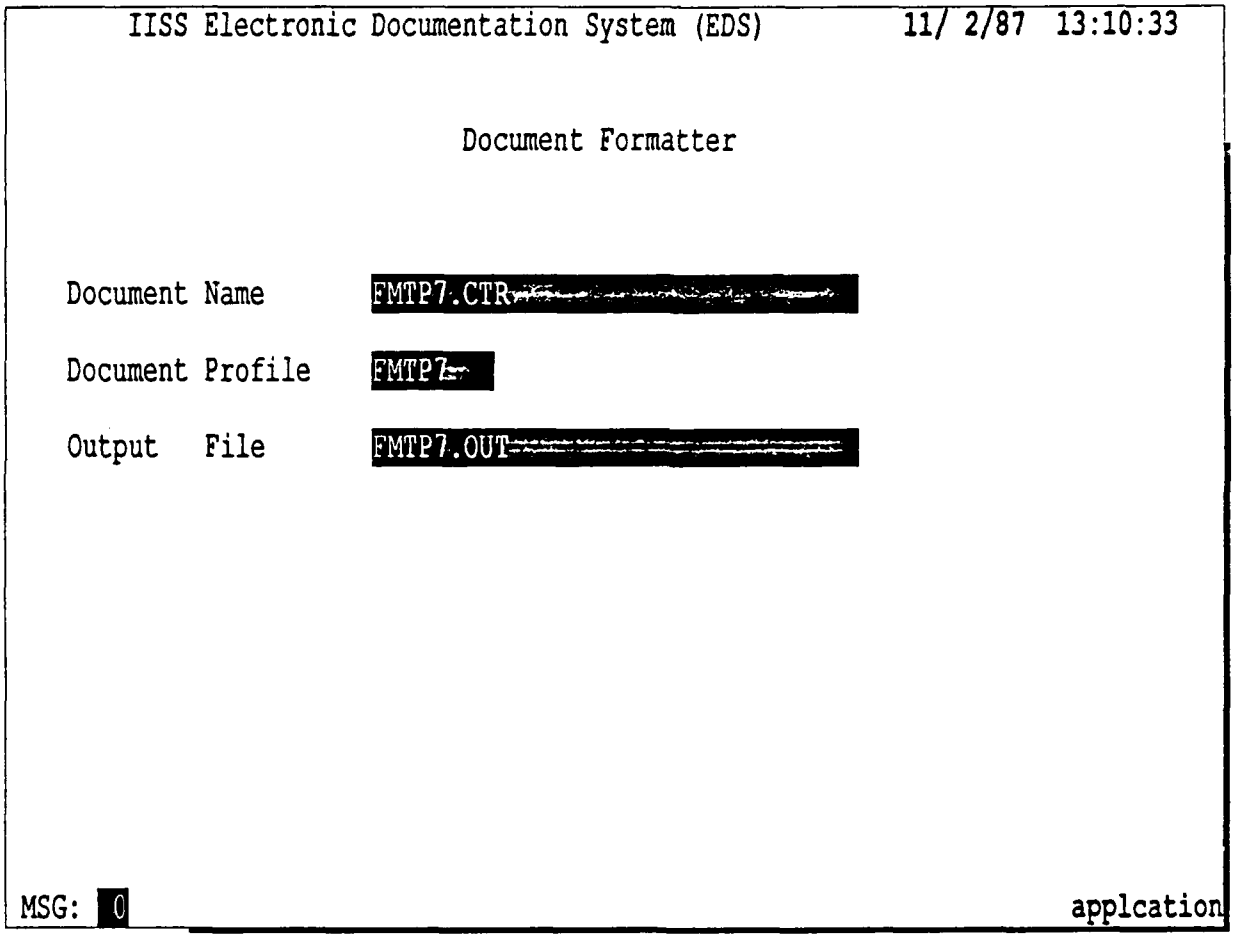

Figure 5-21 Document Formatter Input Form for TEST P8

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Horizontal Spacing Test)</tstnam>
<tstno>Test P7</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<P0>This test will test horizontal positioning.  The list items below
should be 1 inch from the left margin.</p0>

<list>
<i>List item 1</i>
<i>List item 2</i>
<i>List item 3</i>
</list>

</edsutp>
```

Figure 5-22 Horizontal Spacing Test

xxx
x
x

DUMMY

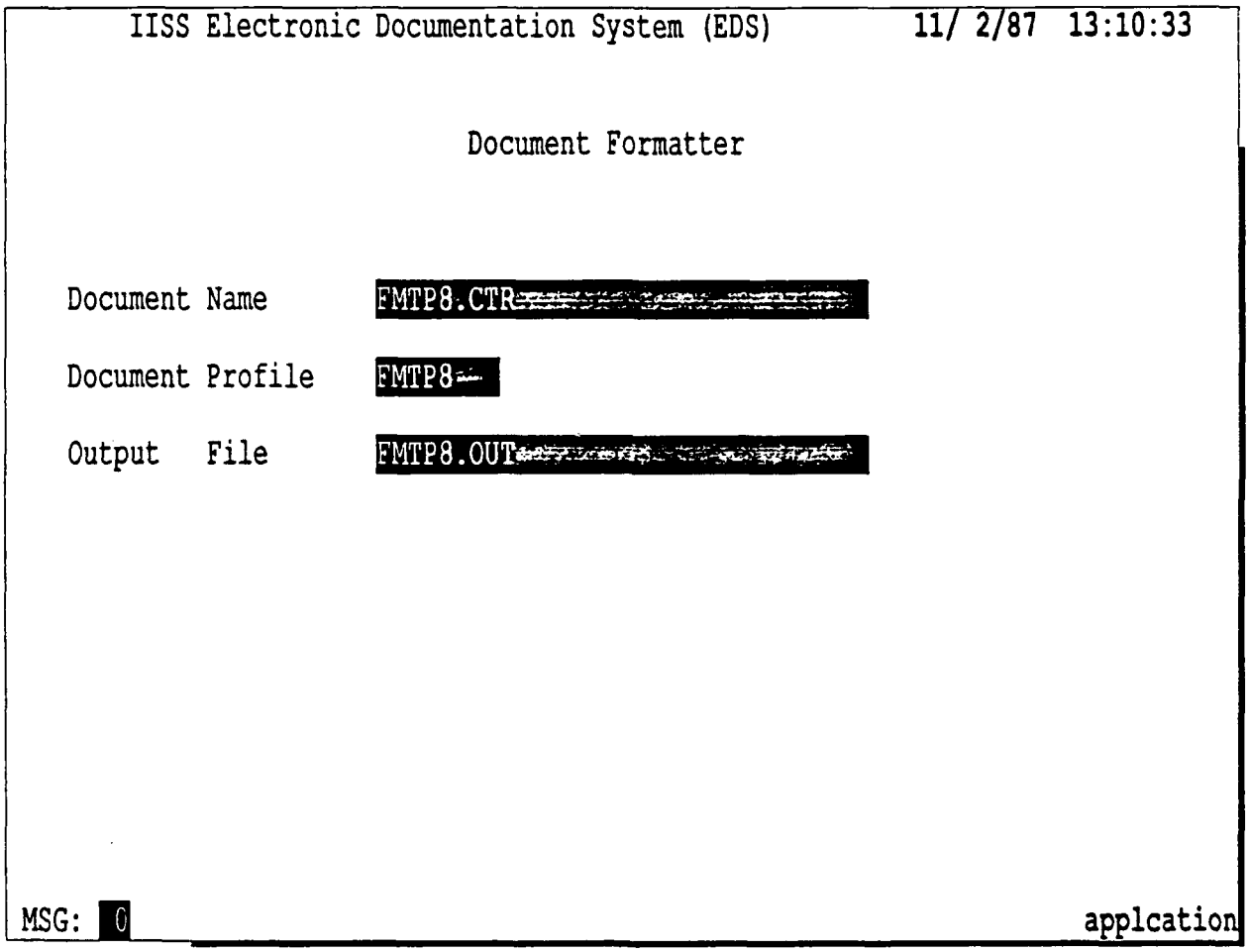

Figure 5-24 Document Formatter Input Form for TEST P8

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Page Eject Test)</tstnam>
<tstno>Test P8</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>Each paragraph should be on a seperate page.</p0>

</edsutp>
```

Figure 5-25 Page Eject Test

xxx
x
x

DUMMY

xxx
x
x

DUMMY

xxx
x
x

DUMMY

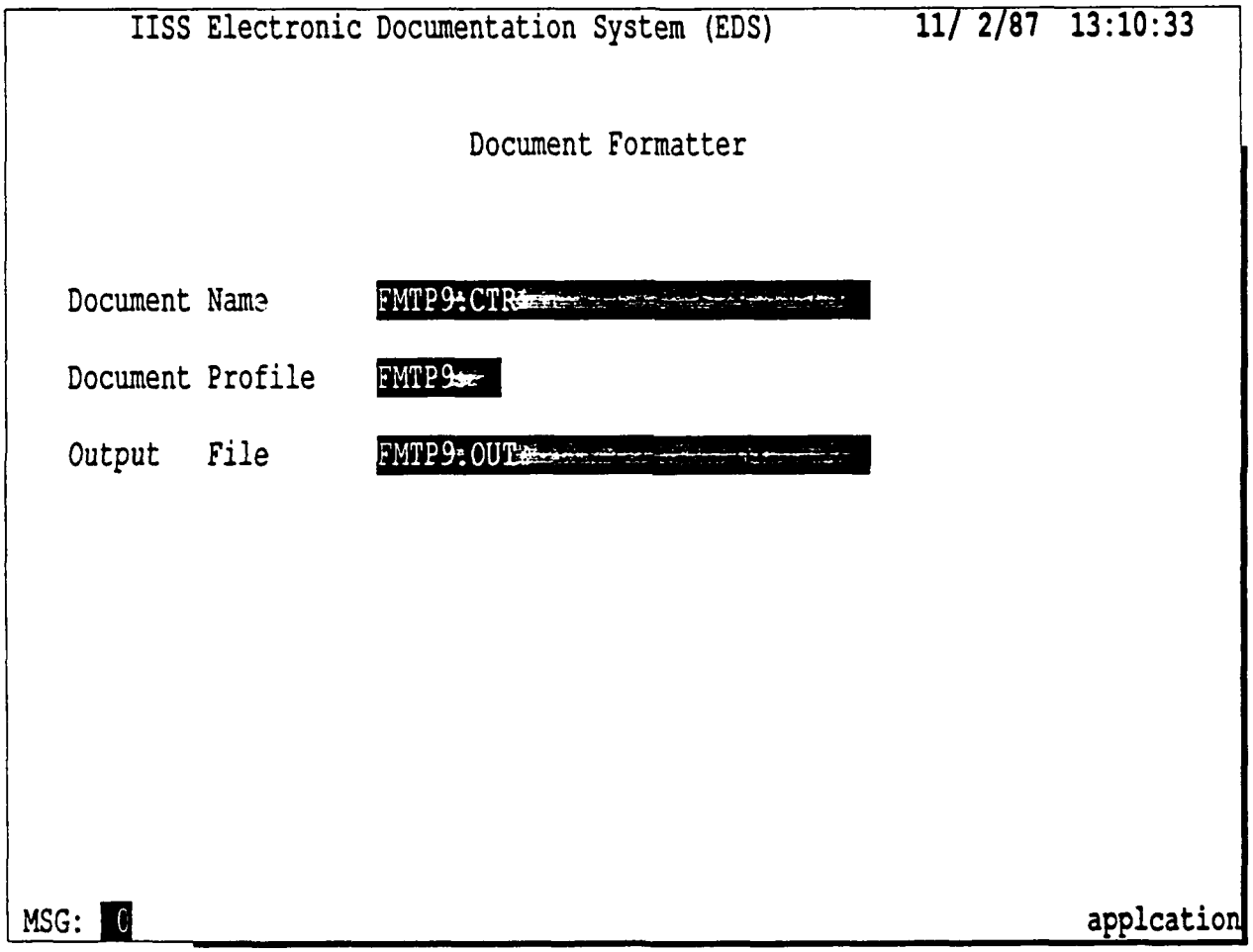

Figure 5-27 Document Formatter Input Form for TEST P9

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Literal Mode Test)</tstnam>
<tstno>Test P9</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The line breaks for each paragraph should occur
exactly where they occur in the source
document.</p0>

</edsutp>
```

Figure 5-28 Literal Mode Test

xxx
x
x

DUMMY

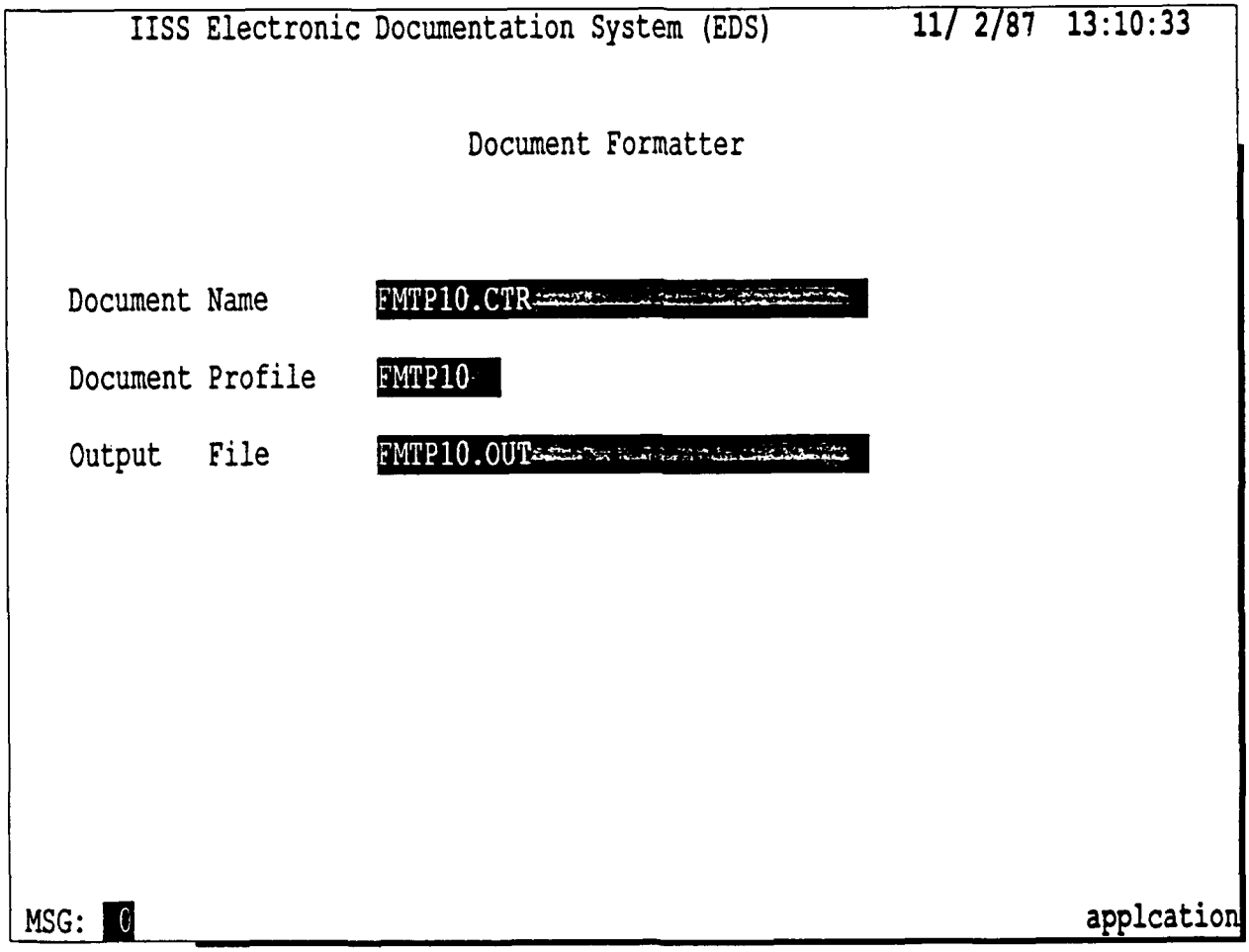

Figure 5-30 Document Formatter Input Form for TEST P10

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (No Advance Mode Test)</tstnam>
<tstno>Test P10</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<P0>This test will test the no advance mode formatting attribute.  No
Advance means that once a GI is procesed, the formatter should not
automatically go the the start of the next logical line.  All 3
list items below, although seperate GI's should be on the same line.</p0>

<list>
<i>List item 1</i>
<i>List item 2</i>
<i>List item 3</i>
</list>

</edsutp>
```

Figure 5-31 No Advance Mode Test

xxx
x
x

DUMMY

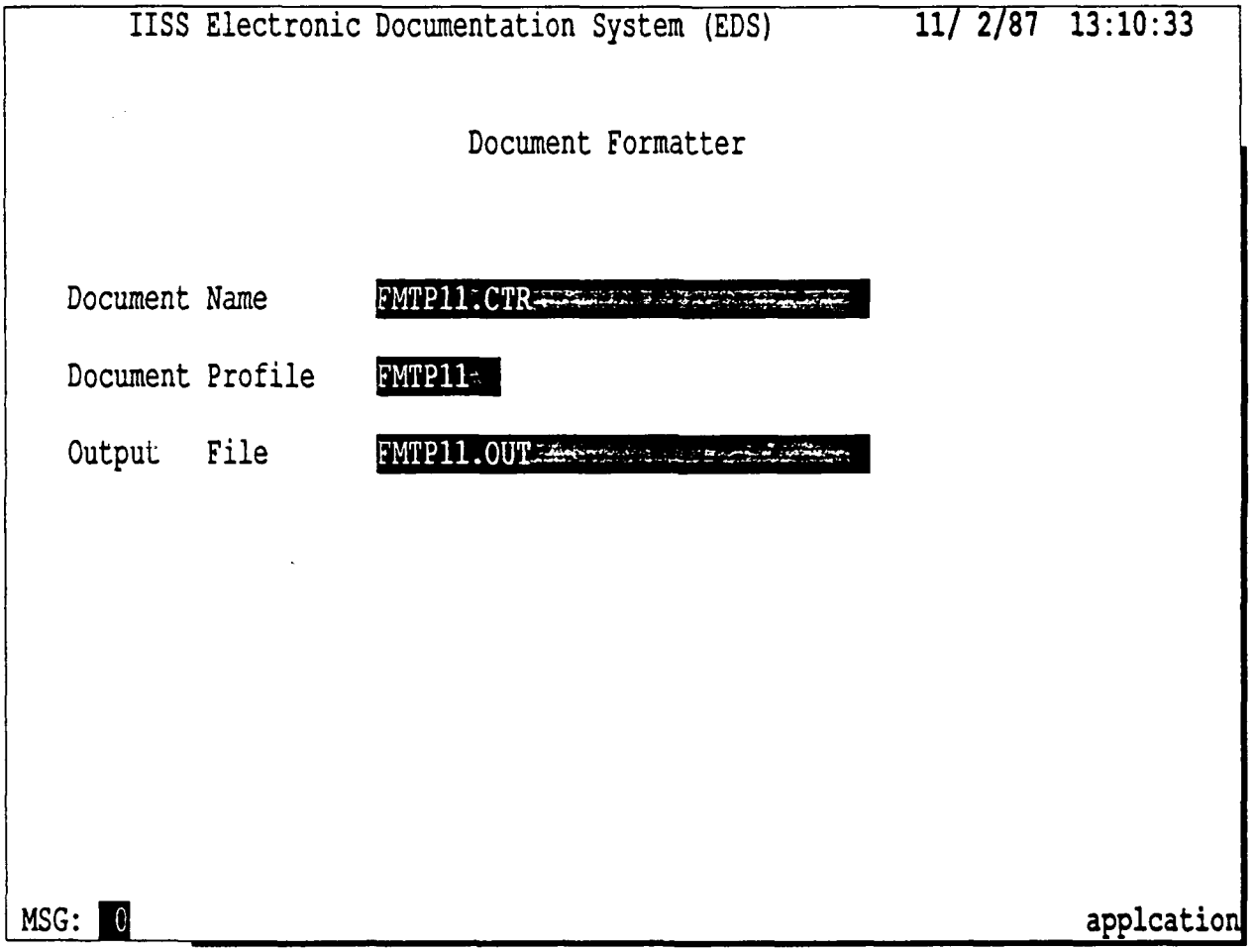

Figure 5-33 Document Formatter Input Form for TEST P11

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Word Wrap Mode Test)</tstnam>
<tstno>Test P11</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>All paragraphs in this document should be word wrapped. When
word wrap mode is on (the default), the line is composed of
as many words as will fit depending on the margins and the fontsize
currently in use.</p0>

</edsutp>
```

Figure 5-34 Word Wrap Test

xxx
x
x

DUMMY

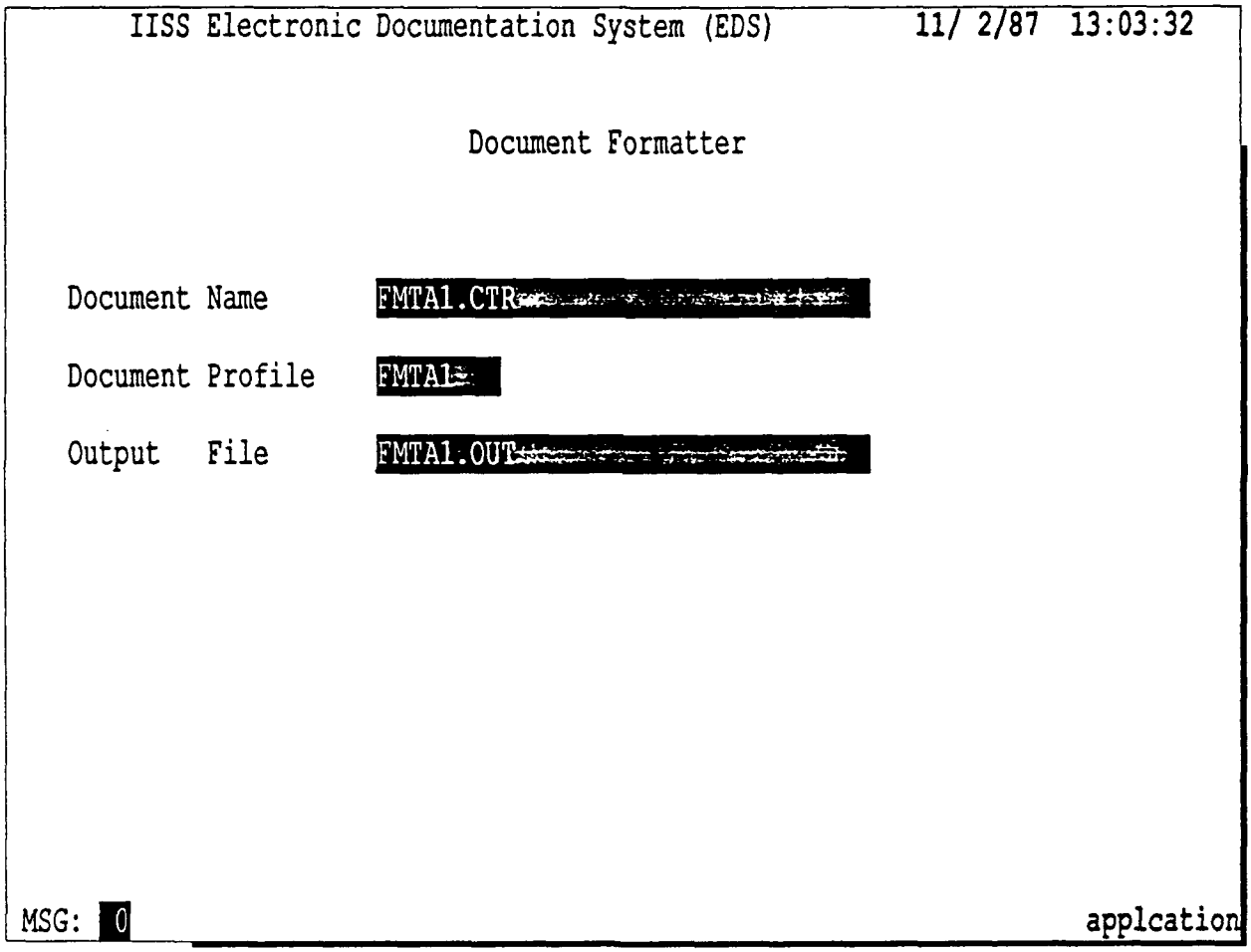

Figure 5-36 Document Formatter Input Form for TEST A1

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Centering Test)</tstnam>
<tstno>Test A1</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<list>
<i>1.  Each line in this list should be centered</i>
<i>2.  Each line in this list should be centered</i>
<i>3.  Each line in this list should be centered</i>
<i>4.  Each line in this list should be centered</i>
<i>5.  Each line in this list should be centered</i>
</list>

</edsutp>
```

Figure 5-37 Centering Test

xxx
x
x

DUMMY

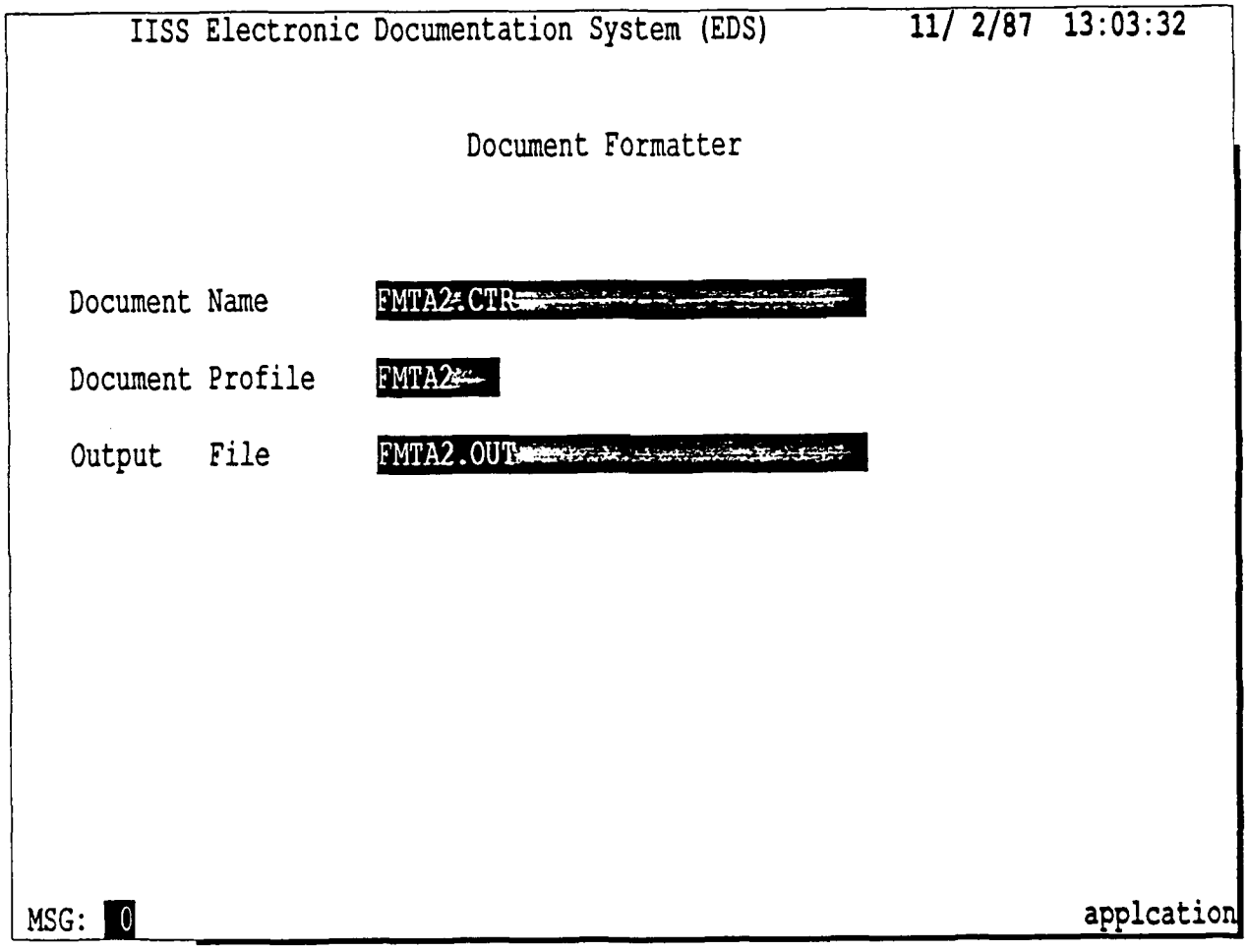

Figure 5-39 Document Formatter Input Form for TEST A2

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Right Justify Test)</tstnam>
<tstno>Test A2</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<list>
<i>1.  Each line in this list should be right justified</i>
<i>2.  Each line in this list should be right justified</i>
<i>3.  Each line in this list should be right justified</i>
<i>4.  Each line in this list should be right justified</i>
<i>5.  Each line in this list should be right justified</i>
</list>

</edsutp>
```

Figure 5-40 Right Justify Test

xxx
x
x

DUMMY

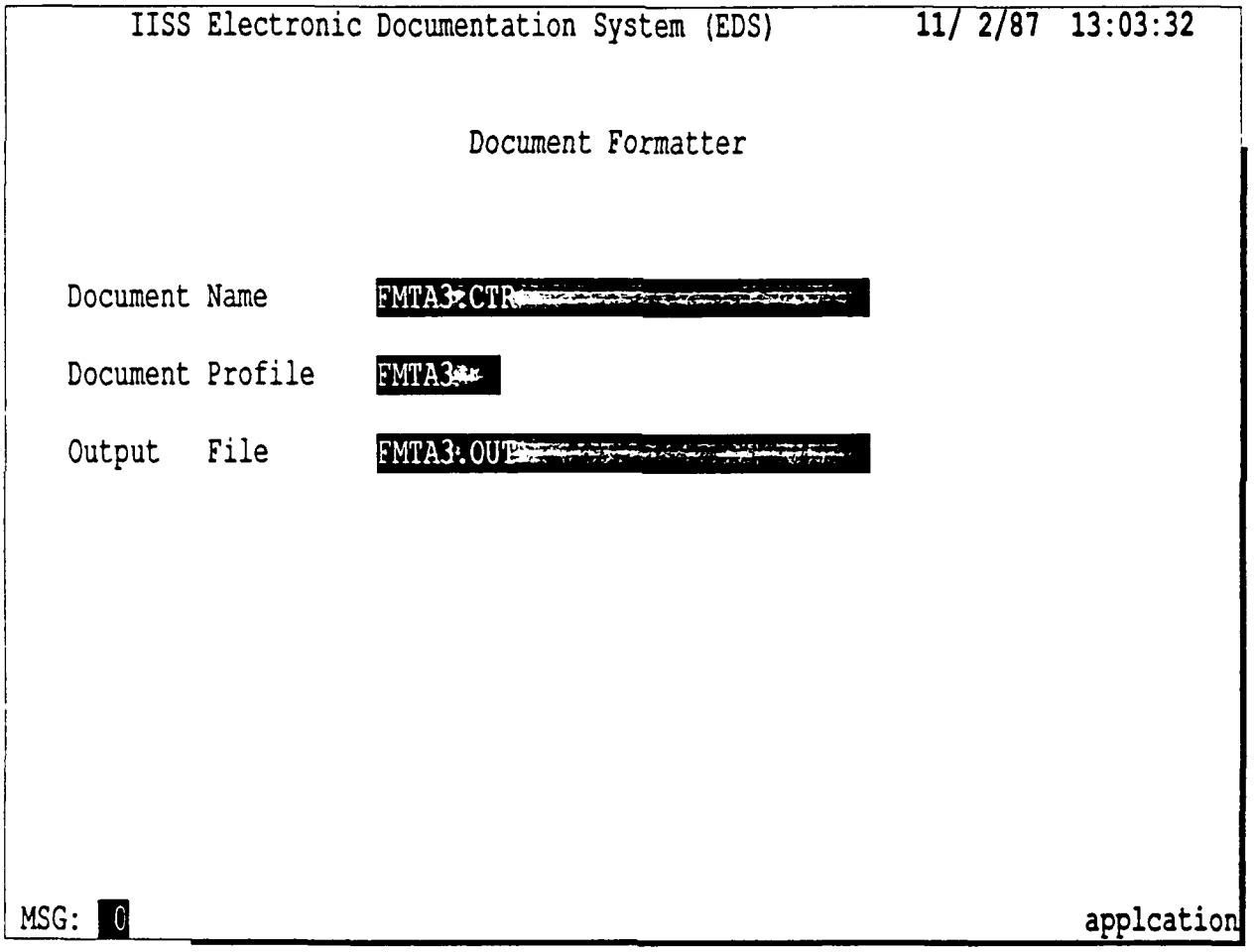

Figure 5-42 Document Formatter Input Form for TEST A3

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Full Justify Test)</tstnam>
<tstno>Test A3</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>All paragraphs in this document should be fully justified. Full
justification means that the right margin should be even.  Extra
space between words is added to achieve this formatting attribute.</p0>

</edsutp>
```

Figure 5-43 Full Justify Test

xxx
x
x

DUMMY

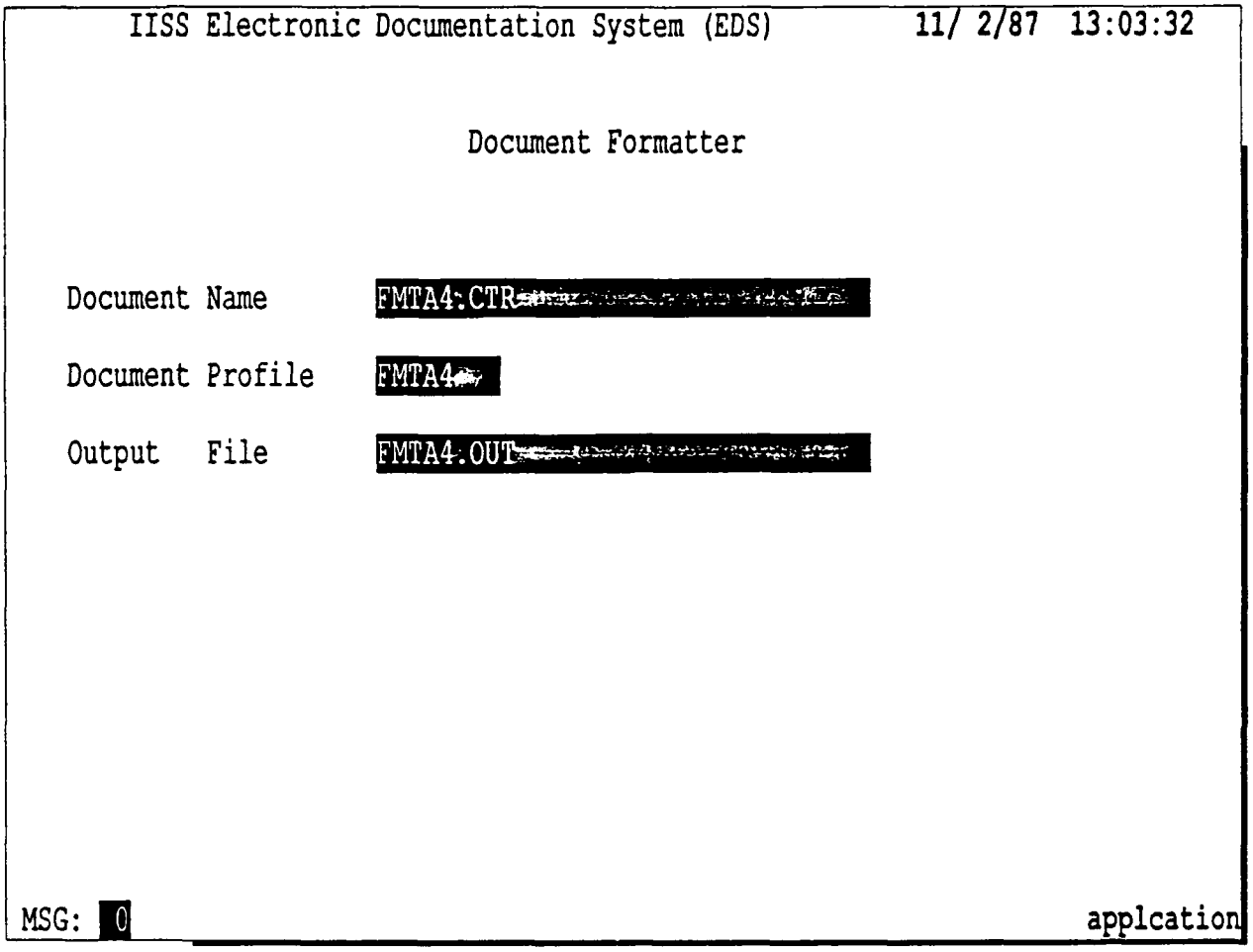

Figure 5-45 Document Formatter Input Form for TEST A4

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Multiple Font Test)</tstnam>
<tstno>Test A4</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This paragraph should be in Times-Roman font, while the one below
should be in Helvetica.</p0>

<p1>This paragraph should be in Helvetica font.</p1>

</edsutp>
```

Figure 5-46 Multiple Font Test

xxx
x
x

DUMMY

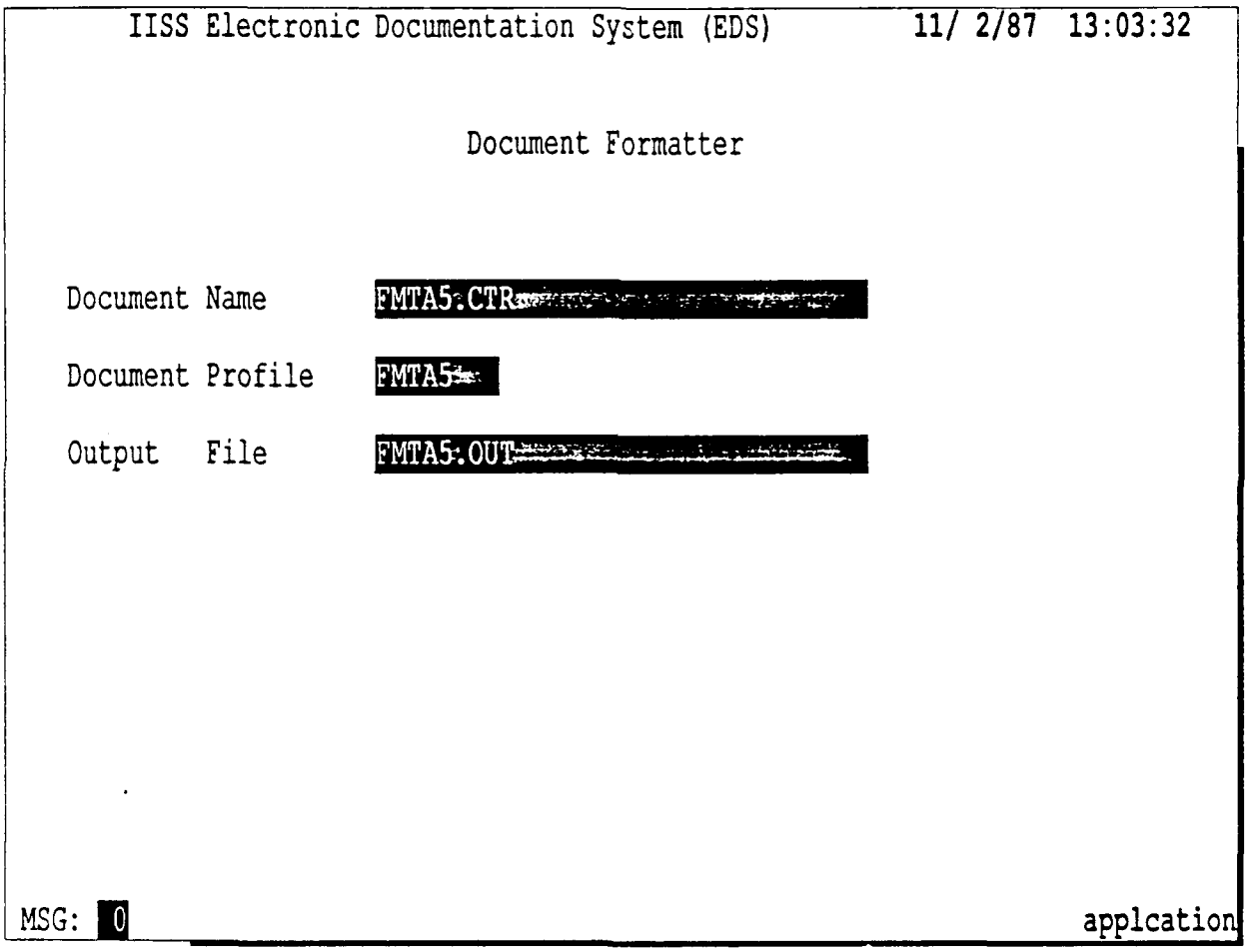

Figure 5-48 Document Formatter Input Form for TEST A5

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Font Size Test)</tstnam>
<tstno>Test A5</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This paragraph should be output in a 12 point Times-Roman font.</p0>

<p1>This paragraph should be output in a 24 point Times-Roman font.</p1>


</edsutp>
```

Figure 5-49 Font Size Test

xxx
x
x

DUMMY

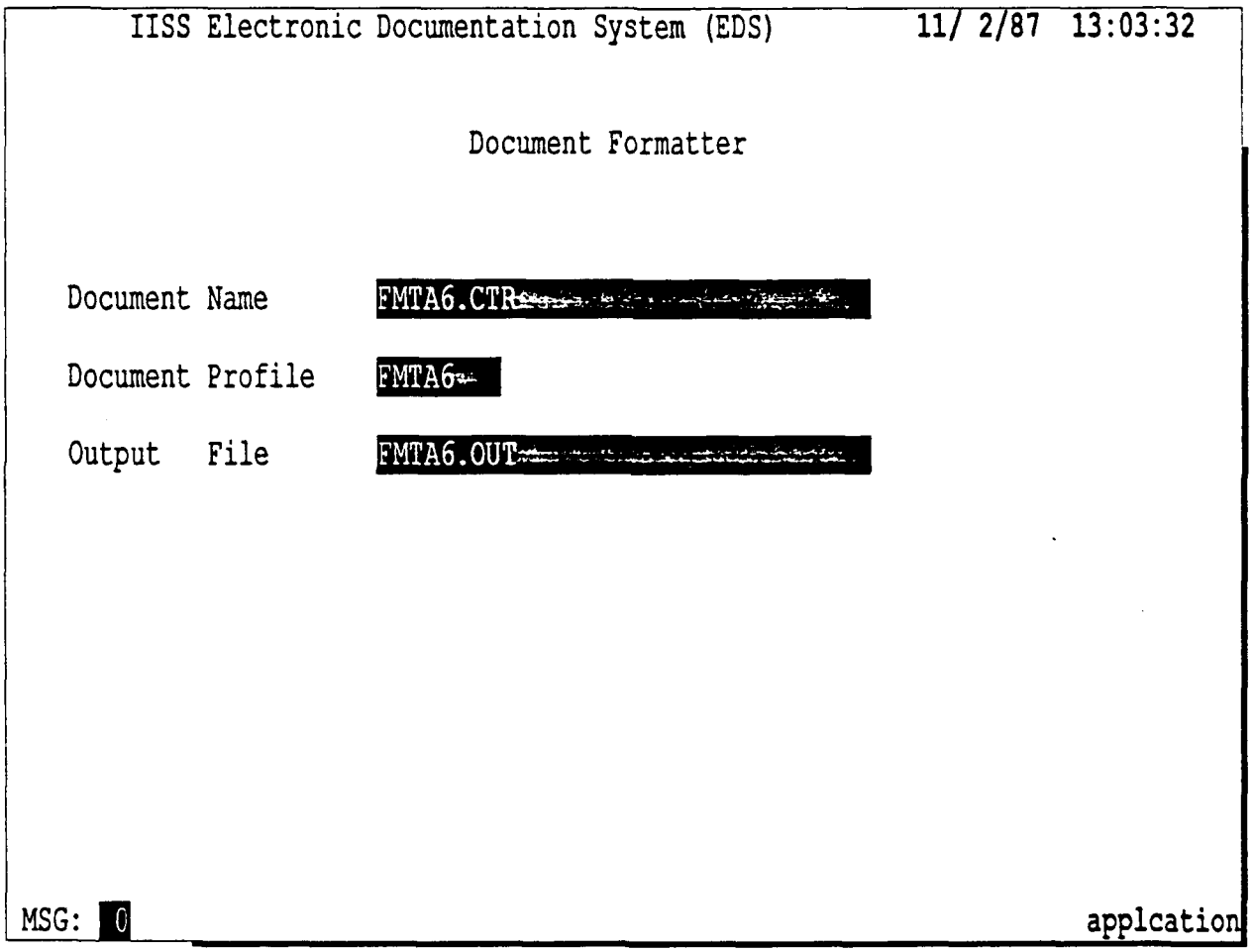

Figure 5-51 Document Formatter Input Form for TEST A6

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Reverse Video Test)</tstnam>
<tstno>Test A6</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<list>
<i>1.  Each line in this list should be in reverse video</i>
<i>2.  Each line in this list should be in reverse video</i>
<i>3.  Each line in this list should be in reverse video</i>
<i>4.  Each line in this list should be in reverse video</i>
<i>5.  Each line in this list should be in reverse video</i>
</list>

</edsutp>
```

Figure 5-52 Reverse Video Test

xxx
x
x

DUMMY

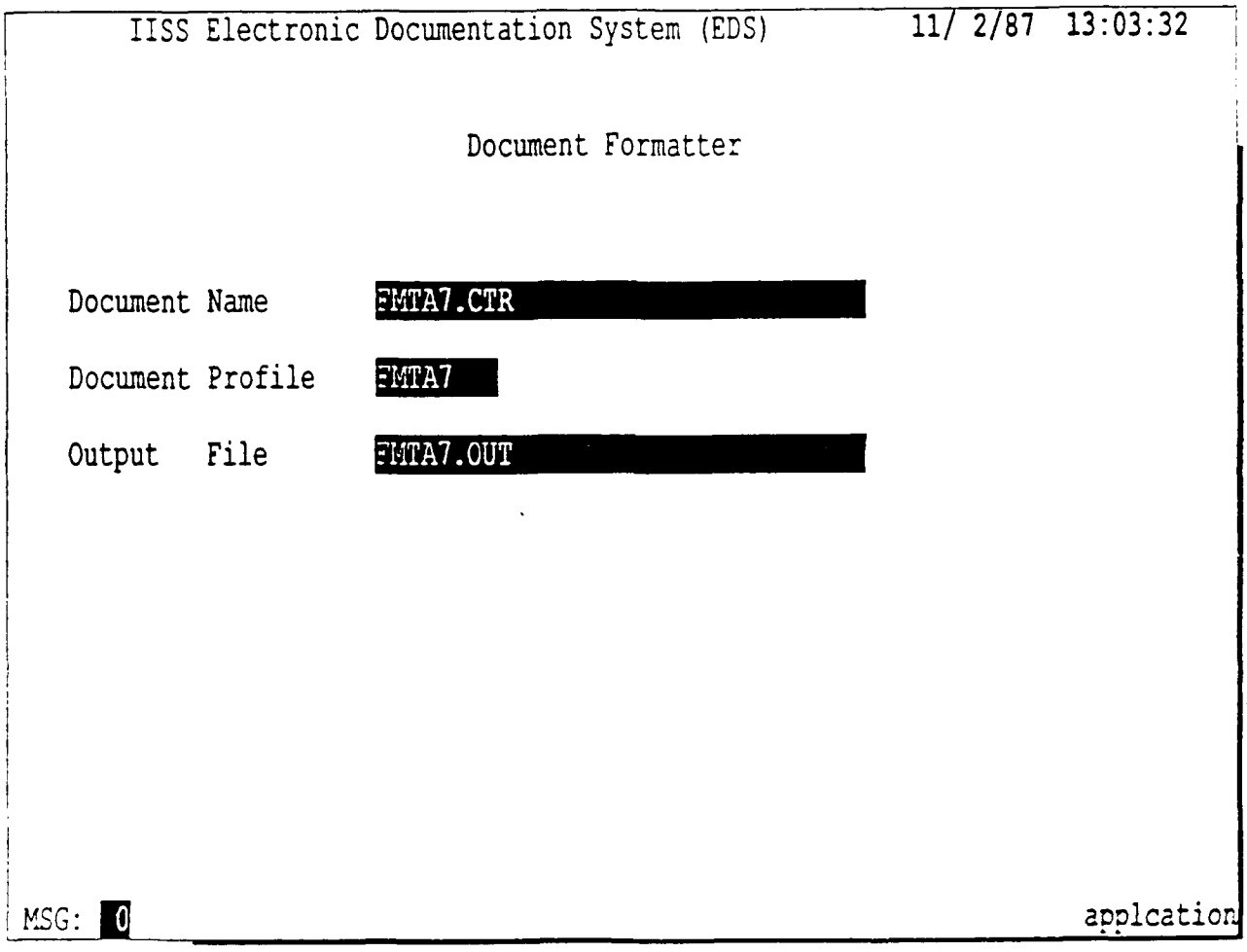

Figure 5-54 Document Formatter Input Form for TEST A7

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Italics Test)</tstnam>
<tstno>Test A7</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<list>
<i>1.  Each line in this list should be in italics</i>
<i>2.  Each line in this list should be in italics</i>
<i>3.  Each line in this list should be in italics</i>
<i>4.  Each line in this list should be in italics</i>
<i>5.  Each line in this list should be in italics</i>
</list>

</edsutp>
```

Figure 5-55 Italics Test

xxx
x
x

DUMMY

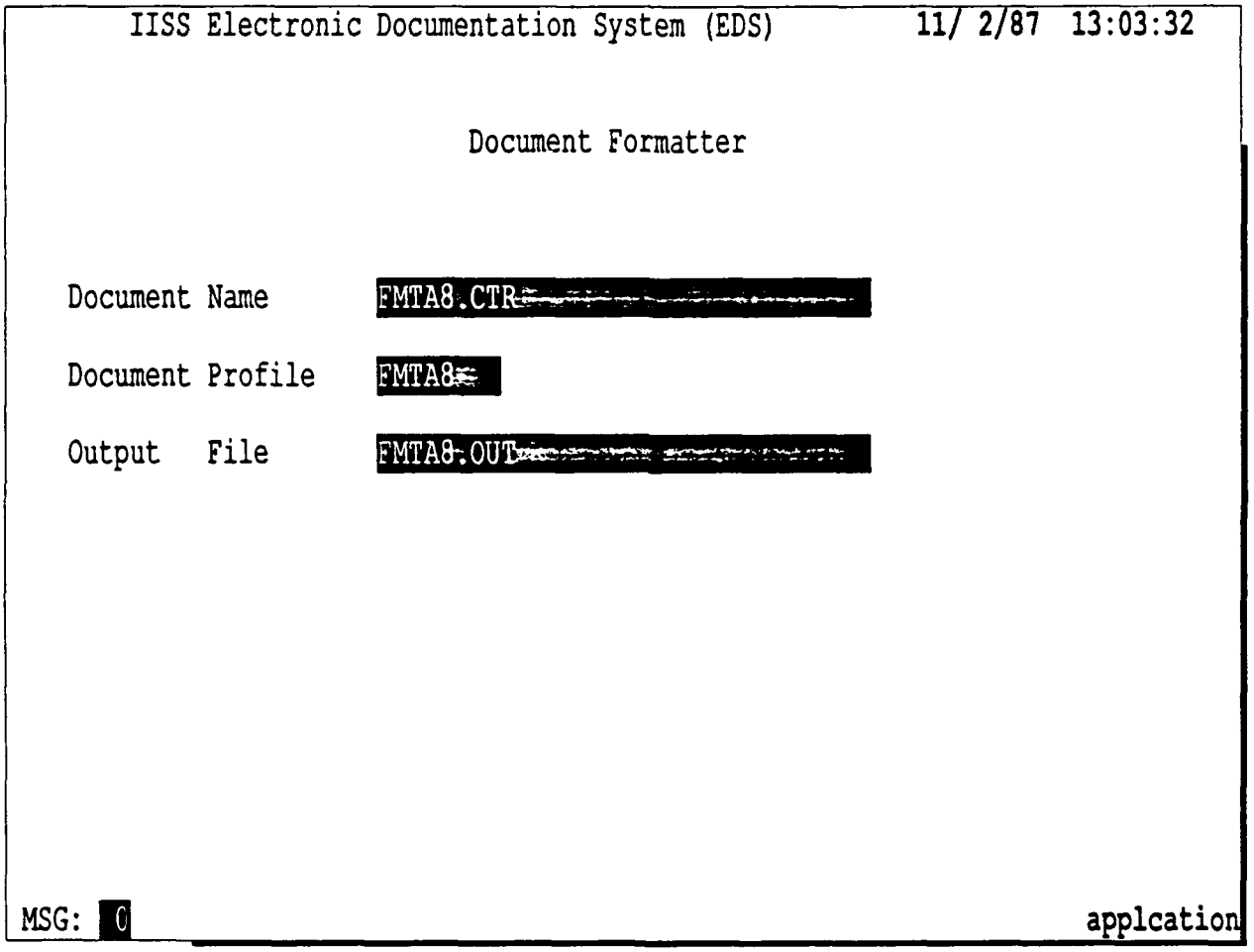

Figure 5-57 Document Formatter Input Form for TEST A8

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Bold Test)</tstnam>
<tstno>Test A8</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<list>
<i>1.  Each line in this list should be in bold</i>
<i>2.  Each line in this list should be in bold</i>
<i>3.  Each line in this list should be in bold</i>
<i>4.  Each line in this list should be in bold</i>
<i>5.  Each line in this list should be in bold</i>
</list>

</edsutp>
```

Figure 5-58 Bold Test

xxx
x
x

DUMMY

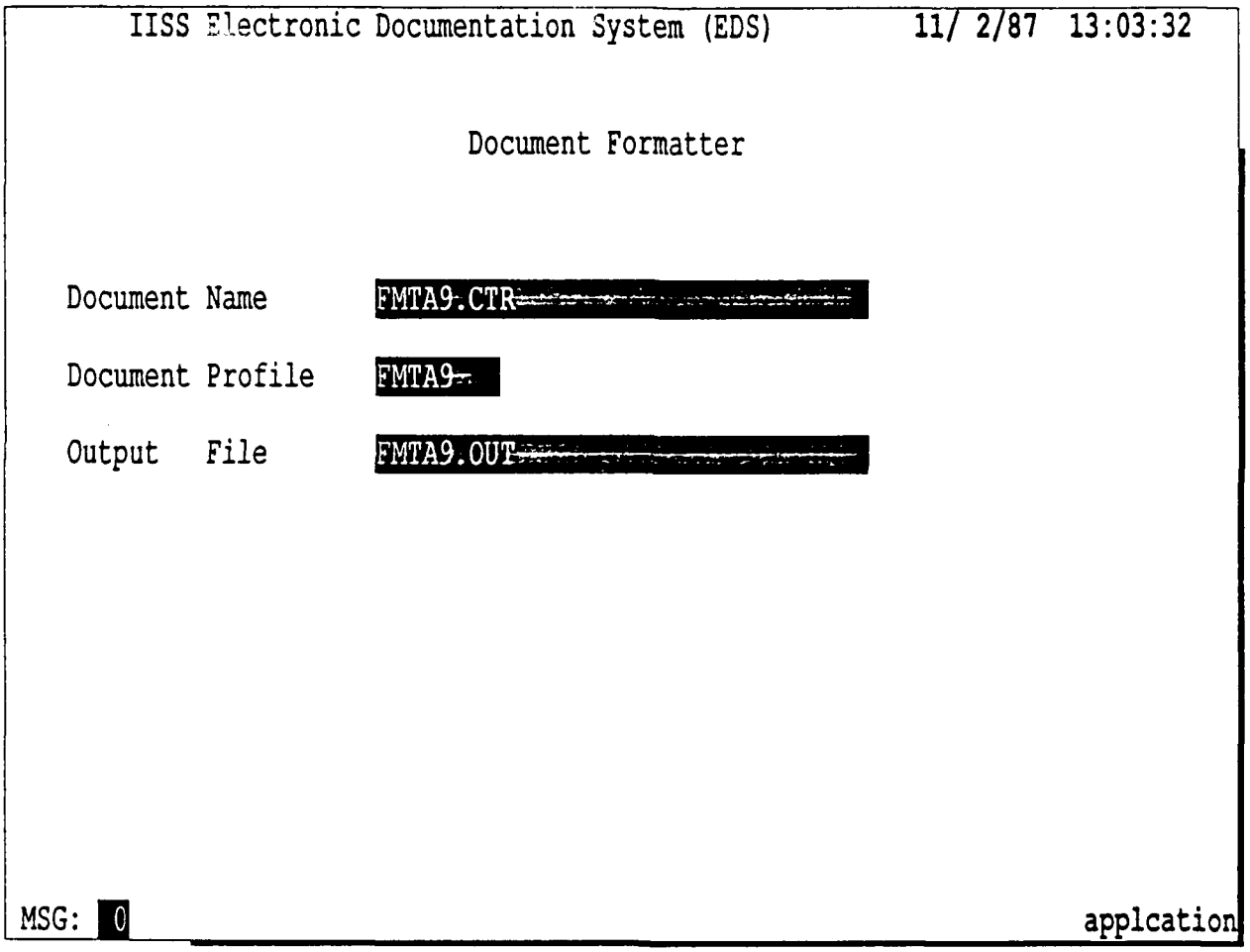

Figure 5-60 Document Formatter Input Form for TEST A9

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Underline Test)</tstnam>
<tstno>Test A9</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<list>
<i>1.  Each line in this list should be underlined</i>
<i>2.  Each line in this list should be underlined</i>
<i>3.  Each line in this list should be underlined</i>
<i>4.  Each line in this list should be underlined</i>
<i>5.  Each line in this list should be underlined</i>
</list>

</edsutp>
```

Figure 5-61 Underline Test

xxx
x
x

DUMMY

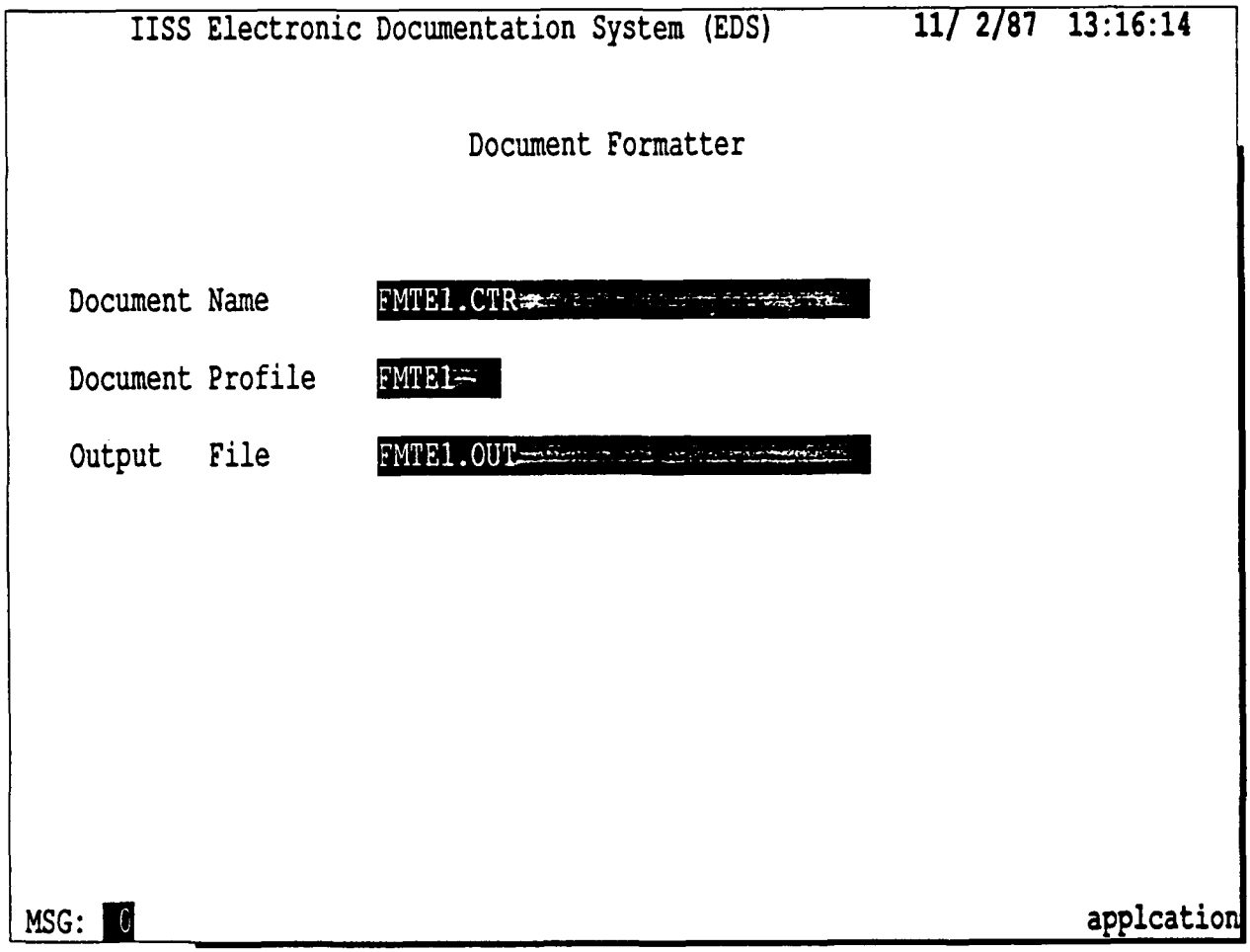

Figure 5-63 Document Formatter Input Form for TEST E1

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Macpaint ESPF Test)</tstnam>
<tstno>Test E1</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The following picture was taken from a MacInstosh screen dump. Screen
dumps can be obtained by pressing Control-Shift 3 on the Mac.  Screen
dumps are written out in MacPaint format.</p0>

<figure file="FMTE1.EPSF" width="page" >
</figure>

</edsutp>
```

Figure 5-64 MacPaint EPSF Test

xxx
x
x

DUMMY

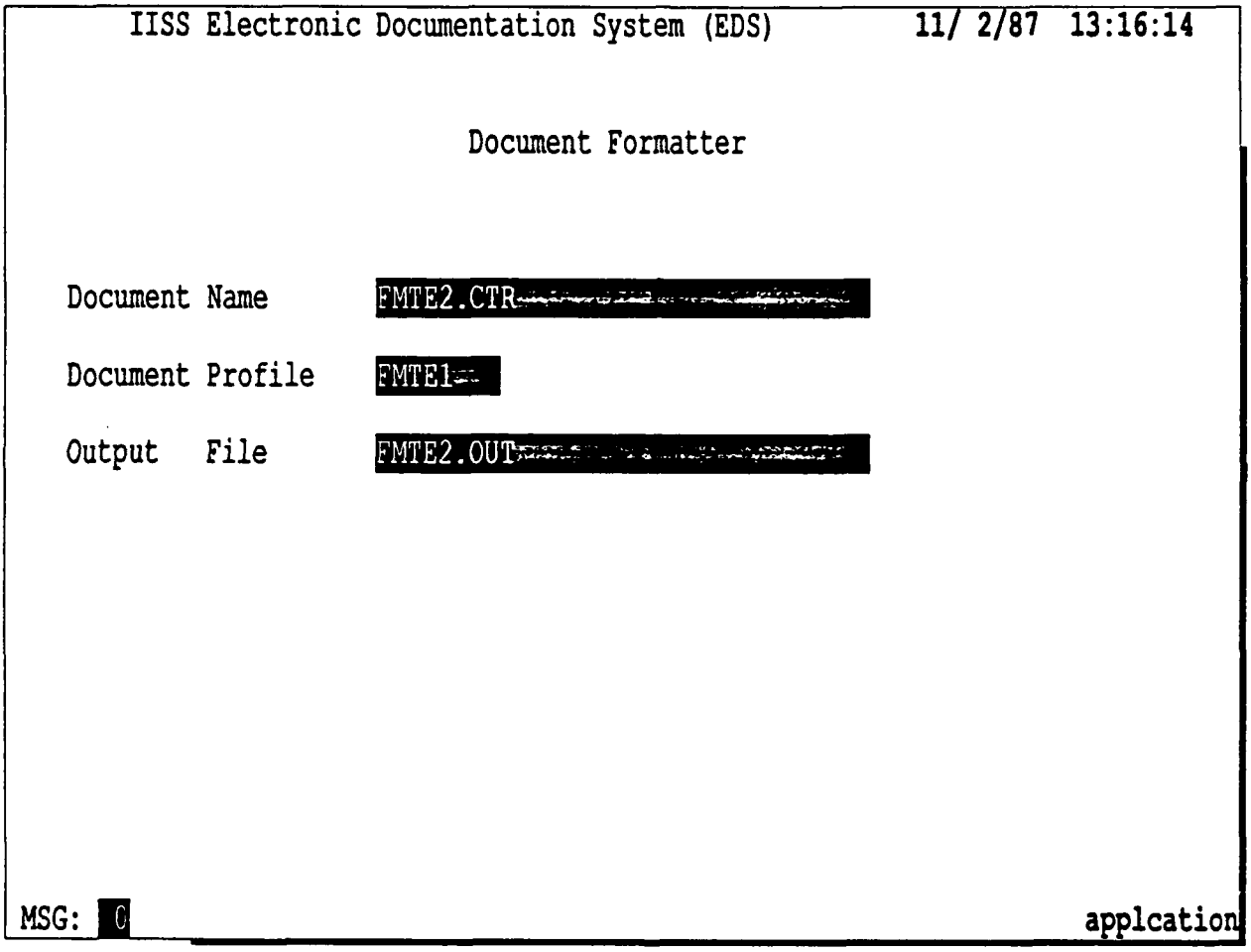

Figure 5-66 Document Formatter Input Form for TEST E2

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (UI Sscreen Dump Test)</tstnam>
<tstno>Test E1</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The following picture was taken from a UI screen dump. Screen
dumps can be obtained by pressing ESC [ i.</p0>

<figure file="FMTE2.EPSF" width="page" >
</figure>

</edsutp>
```

Figure 5-67 UI Screen Dump Test

xxx
x
x

DUMMY

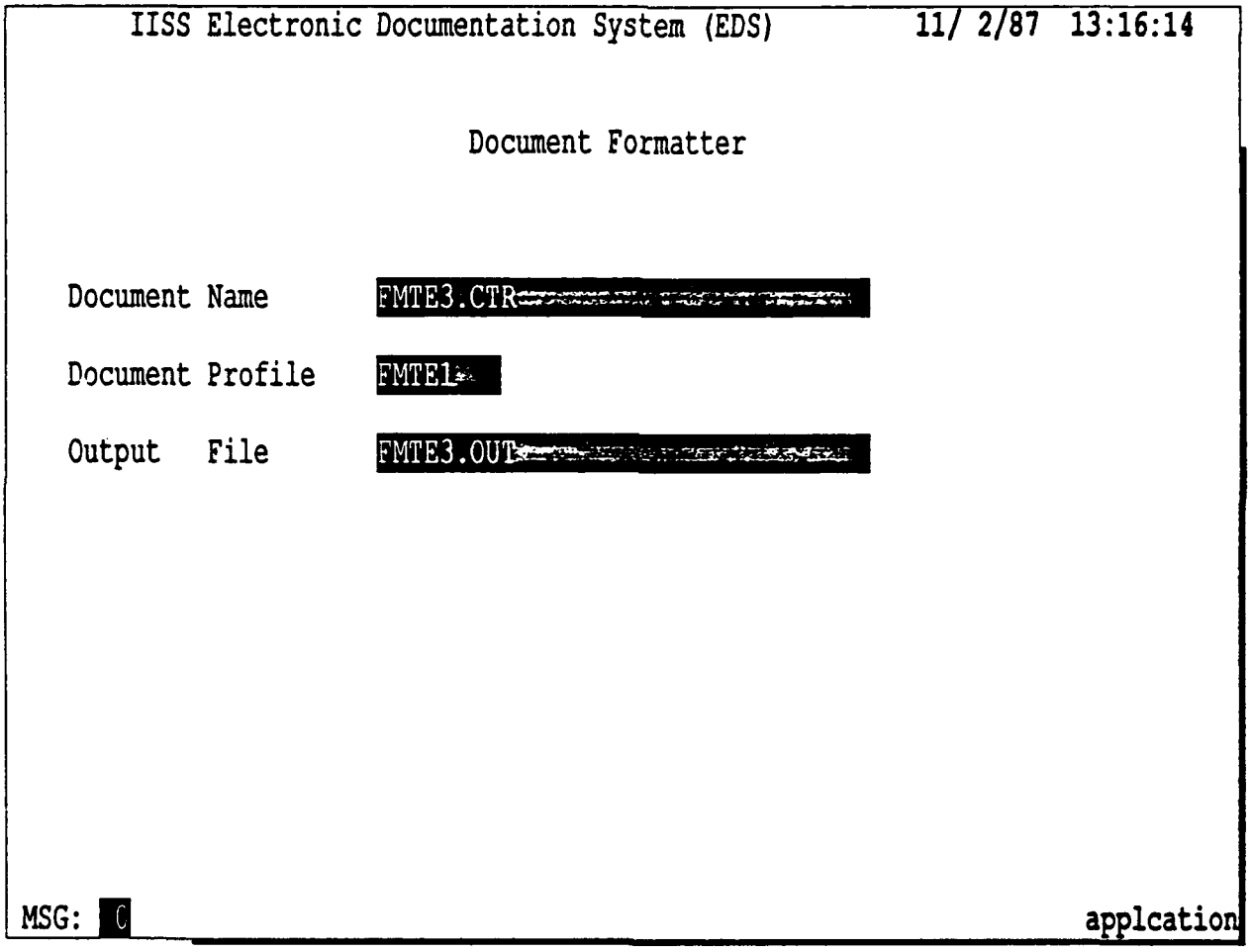

Figure 5-69 Document Formatter Input Form for TEST E3

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Macpaint ESPF Border Test)</tstnam>
<tstno>Test  E3</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The following picture was taken from a MacInstosh screen dump. Screen
dumps can be obtained by pressing Control-Shift 3 on the Mac.  Screen
dumps are written out in MacPaint format.</p0>

<p0>This picture should have a 2 point border around it.</p0>

<figure file="FMTE1.EPSF" width="page" border="2">
</figure>

</edsutp>
```

Figure 5-70 Border Test

xxx
x
x

DUMMY

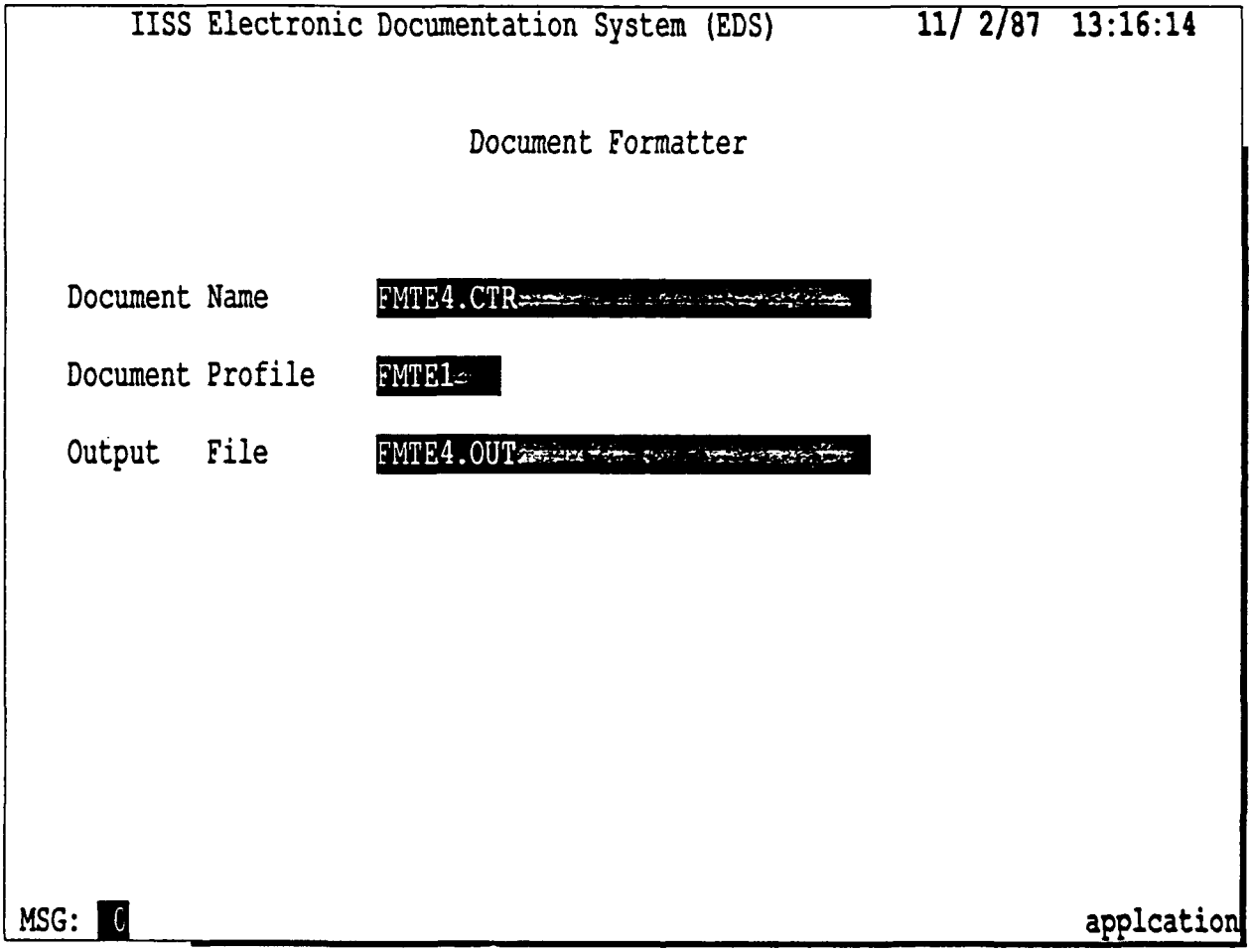

Figure 5-72 Document Formatter Input Form for TEST E4

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Macpaint ESPF Shadow Test)</tstnam>
<tstno>Test E4</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The following picture was taken from a MacInstosh screen dump. Screen
dumps can be obtained by pressing Control-Shift 3 on the Mac.  Screen
dumps are written out in MacPaint format.</p0>

<p0>This picture should have a 2 point shadow around it.</p0>

<figure file="FMTE1.EPSF" width="page" shadow="2">
</figure>

</edsutp>
```

Figure 5-73 Shadow Test

xxx
x
x

DUMMY

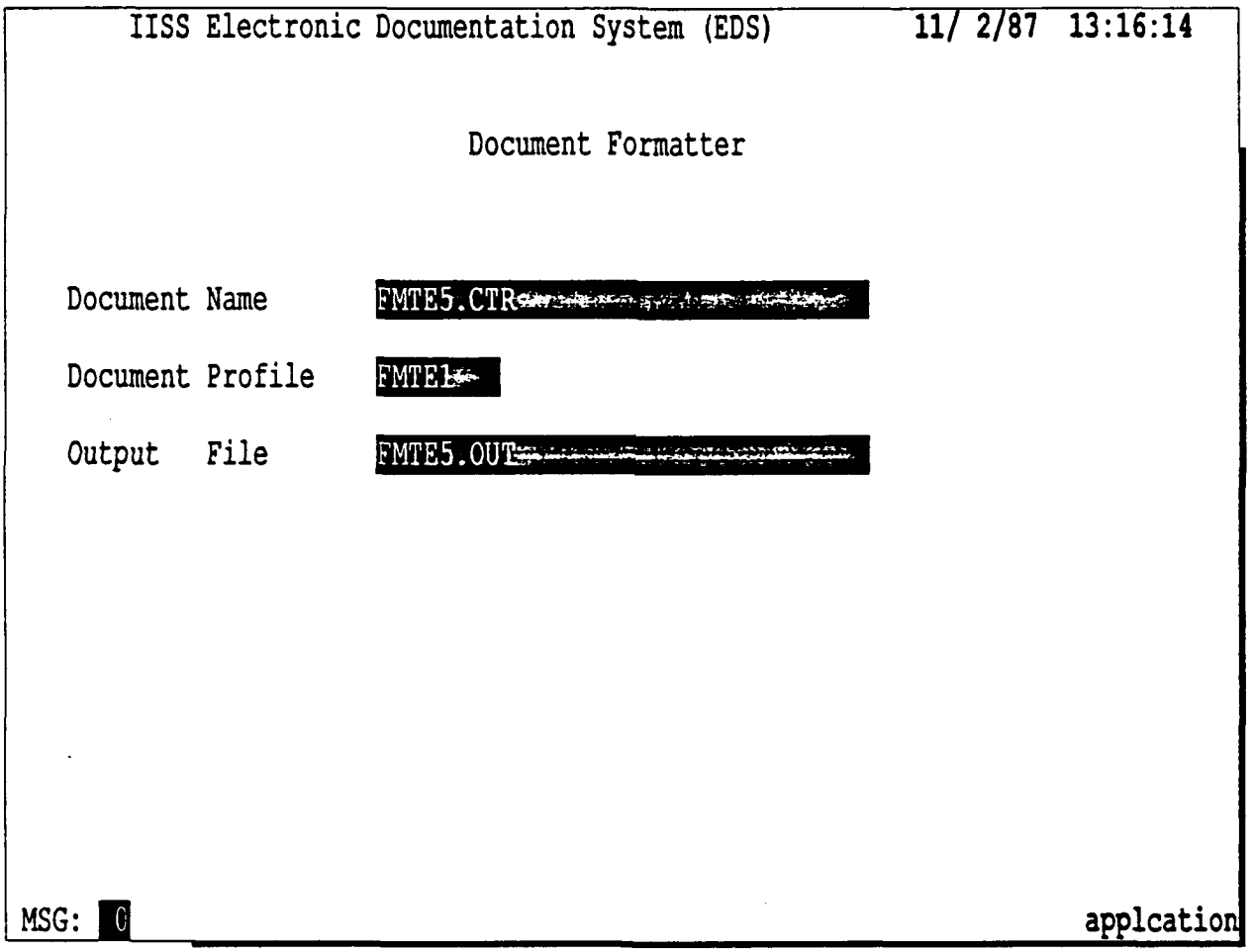

Figure 5-75 Document Formatter Input Form for TEST E5

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Figure Positioning Test (TOP)</tstnam>
<tstno>Test E5</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This picture should be located at the TOP of the next page.</p0>

<figure file="FMTE1.EPSF" place="fixed" posy="top" depth="3.5in"
        width="page" border="1">
</figure>

</edsutp>
```

Figure 5-76 Figure Positioning (TOP)

xxx
x
x

DUMMY

xxx
x
x

DUMMY

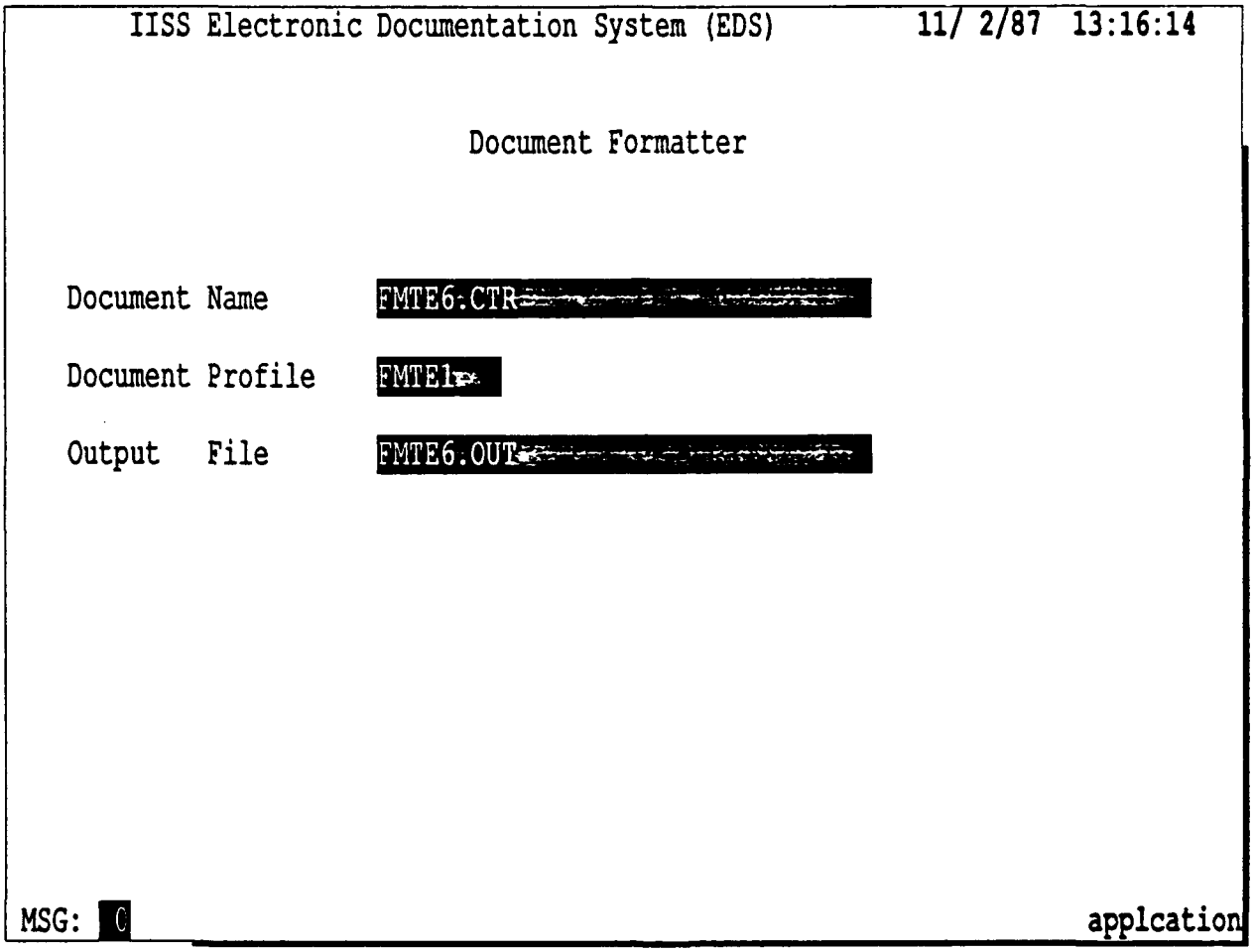

Figure 5-78 Document Formatter Input Form for TEST E6

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Figure Positioning Test (CENTER)</tstnam>
<tstno>Test E6</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This picture should be located at the CENTER of the next page.</p0>

<figure file="FMTE1.EPSF" place="fixed" posy="middle" depth="3.5in"
        width="page" border="1">
</figure>

</edsutp>
```

Figure 5-79 Figure Positioning (CENTER)

xxx
x
x

DUMMY

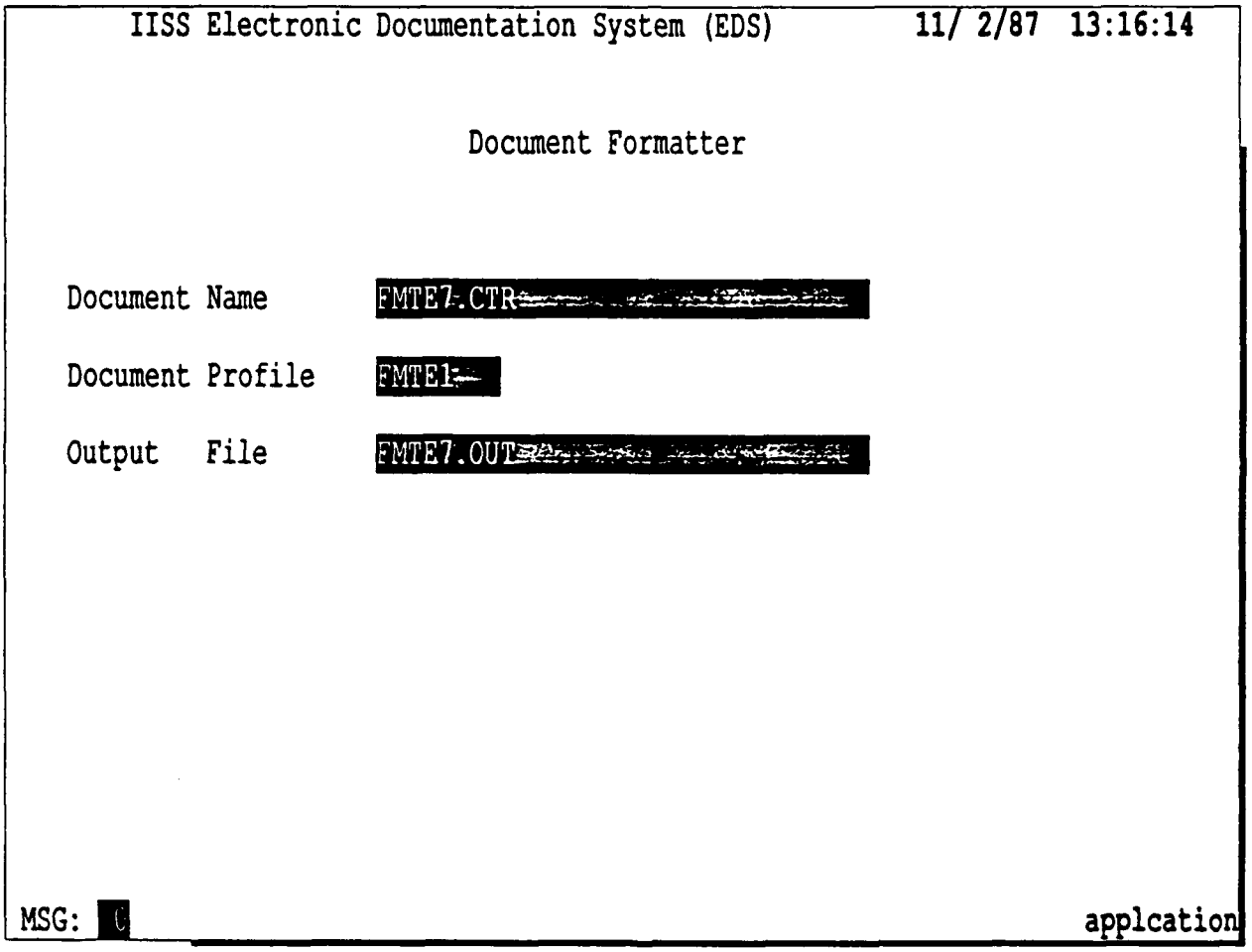

Figure 5-81 Document Formatter Input Form for TEST E7

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Figure Positioning Test (BOTTOM)</tstnam>
<tstno>Test E7</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This picture should be located at the BOTTOM of the page.</p0>

<figure file="FMTE1.EPSF" place="fixed" posy="bottom" depth="3.5in"
        width="page" border="1">
</figure>

</edsutp>
```

Figure 5-82 Figure Positioning (BOTTOM)

xxx
x
x

DUMMY

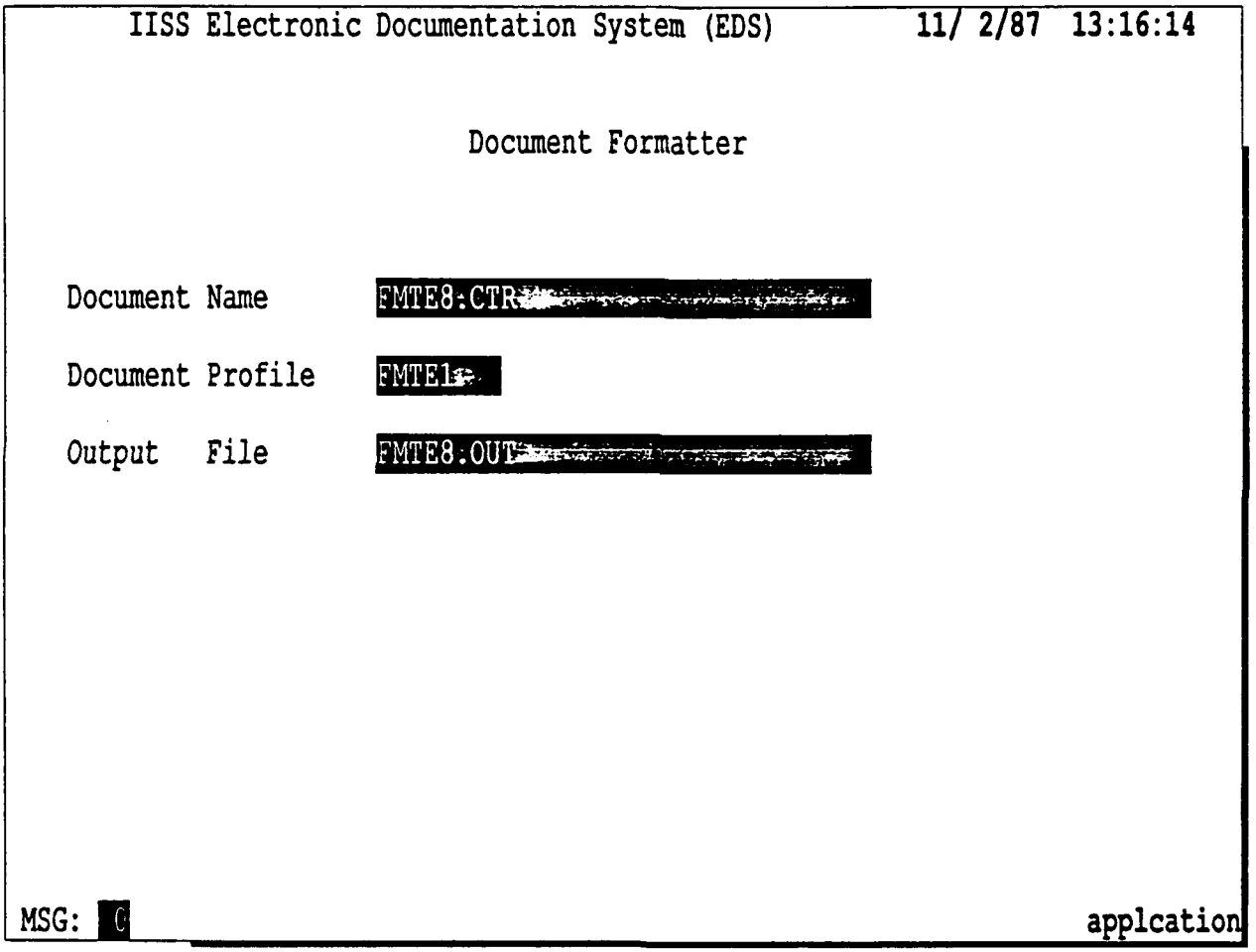

Figure 5-84 Document Formatter Input Form for TEST E8

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Float Positioning Test)</tstnam>
<tstno>Test E8</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>The pictures in this document should be placed in a best fit manner. If
there is room on the page the pircture should be placed on the page. For
this test, one figure should be on the page and one should be located
on the next page.</p0>

<figure file="FMTE1.EPSF" depth="3.5in" width="page" border="1">
</figure>

<p0>Of course text and graphics can be intermixed within the document.</p0>

<figure file="FMTE2.EPSF" depth="3.5in" width="5in" shadow="1">
</figure>

</edsutp>
```

Figure 5-85 Float Positioning Test

xxx
x
x

DUMMY

xxx
x
x

DUMMY

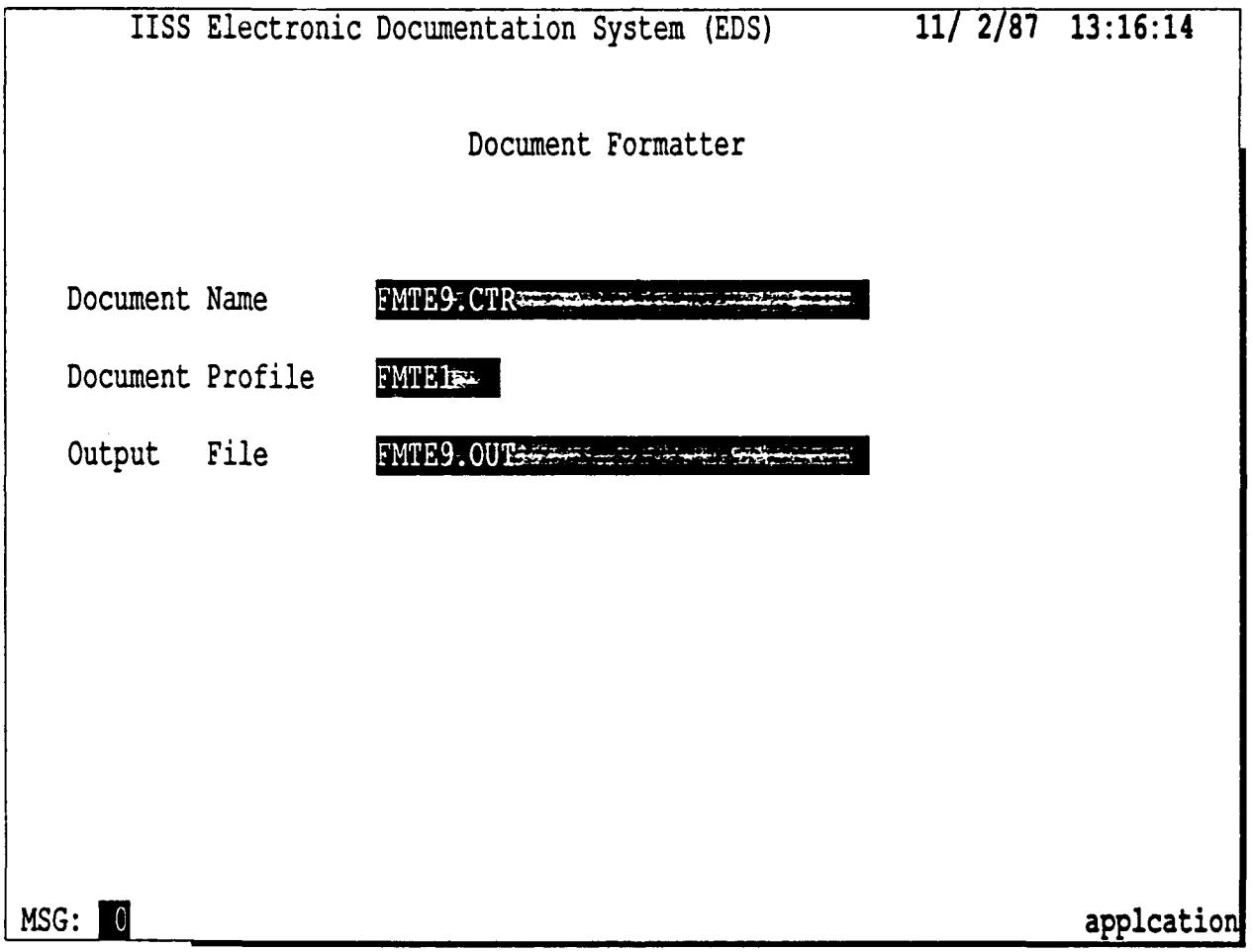

Figure 5-87 Document Formatter Input Form for TEST E9

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Width/Depth Test)</tstnam>
<tstno>Test E9</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This test illustrates that the size of the figure can be specified
by the user.  The Formater will attempt to scale the figure to the specified
size while preserving the aspect ratio of the figure inidicated by the EPSF
bounding box statement.  Because of the aspect ratio factor, the graph may
not come out exactly the size specified by the width and depth attributes.</p

<figure file="FMTE1.EPSF" depth="3.5in" width="page" border="1">
</figure>

<figure file="FMTE1.EPSF" depth="3.5in" width="3.5in" border="1">
</figure>

<figure file="FMTE1.EPSF" depth="1.5in" width="1.5in" border="1">
</figure>

<figure file="FMTE1.EPSF" depth=".5in" width=".5in" border="1">
</figure>


</edsutp>
```

Figure 5-88 Width/Depth Test

xxx
x
x

DUMMY

xxx
x
x

DUMMY

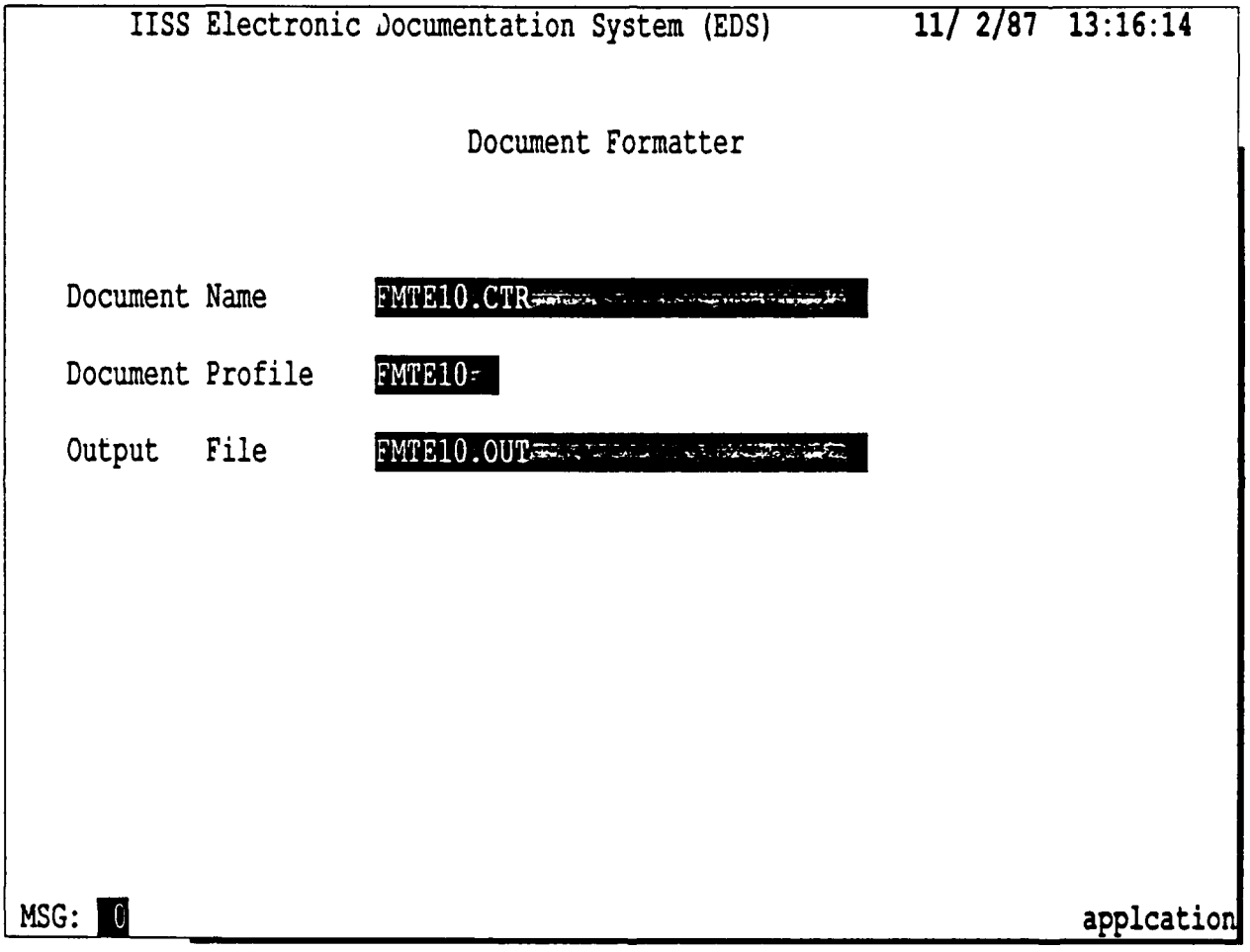

Figure 5-90 Document Formatter Input Form for TEST E10

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Text Import - Literal Mode)</tstnam>
<tstno>Test E10</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This test illustrates that text files can be imported into a document.
For this test the imported text will be output in literal mode.  Line breaks
for the text will be gnerated at the new line character for the imported
text.</p0>

<report file="FMTE10.TXT">
</report>

</edsutp>
```

Figure 5-92 Text Import - Literal Mode

xxx
x
x

DUMMY

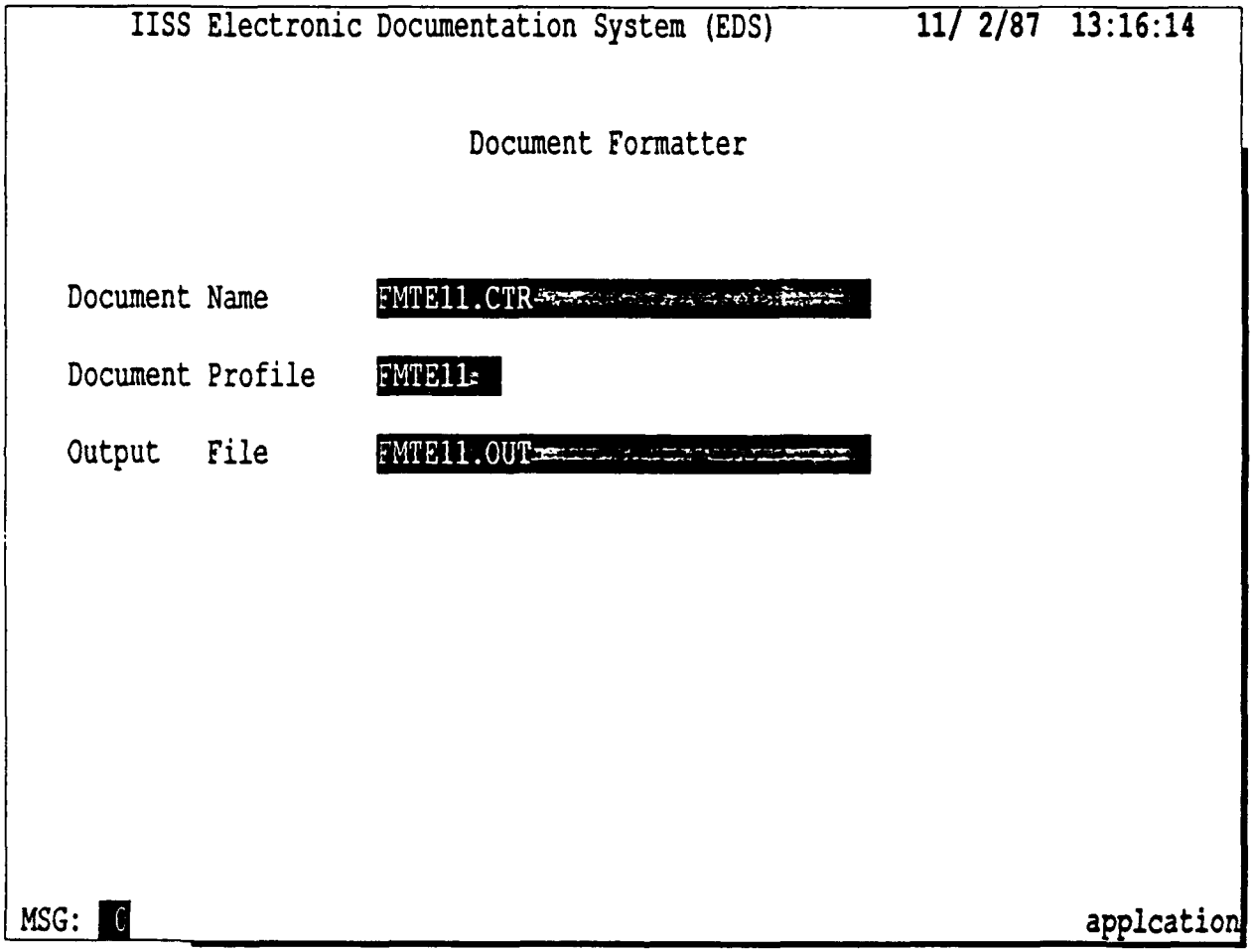

Figure 5-93 Document Formatter Input Form for TEST E11

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Text Import - Word Wrap Mode)</tstnam>
<tstno>Test E11</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This test illustrates that text files can be imported into a document.
For this test the imported text will be output in word wrap mode.
Line breaks for the text will be generated when the formatter has placed
as many words as will fit on one line.</p0>

<report file="FMTE10.TXT">
</report>

</edsutp>
```

Figure 5-94 Text Import - Word Wrap Mode

xxx
x
x

DUMMY

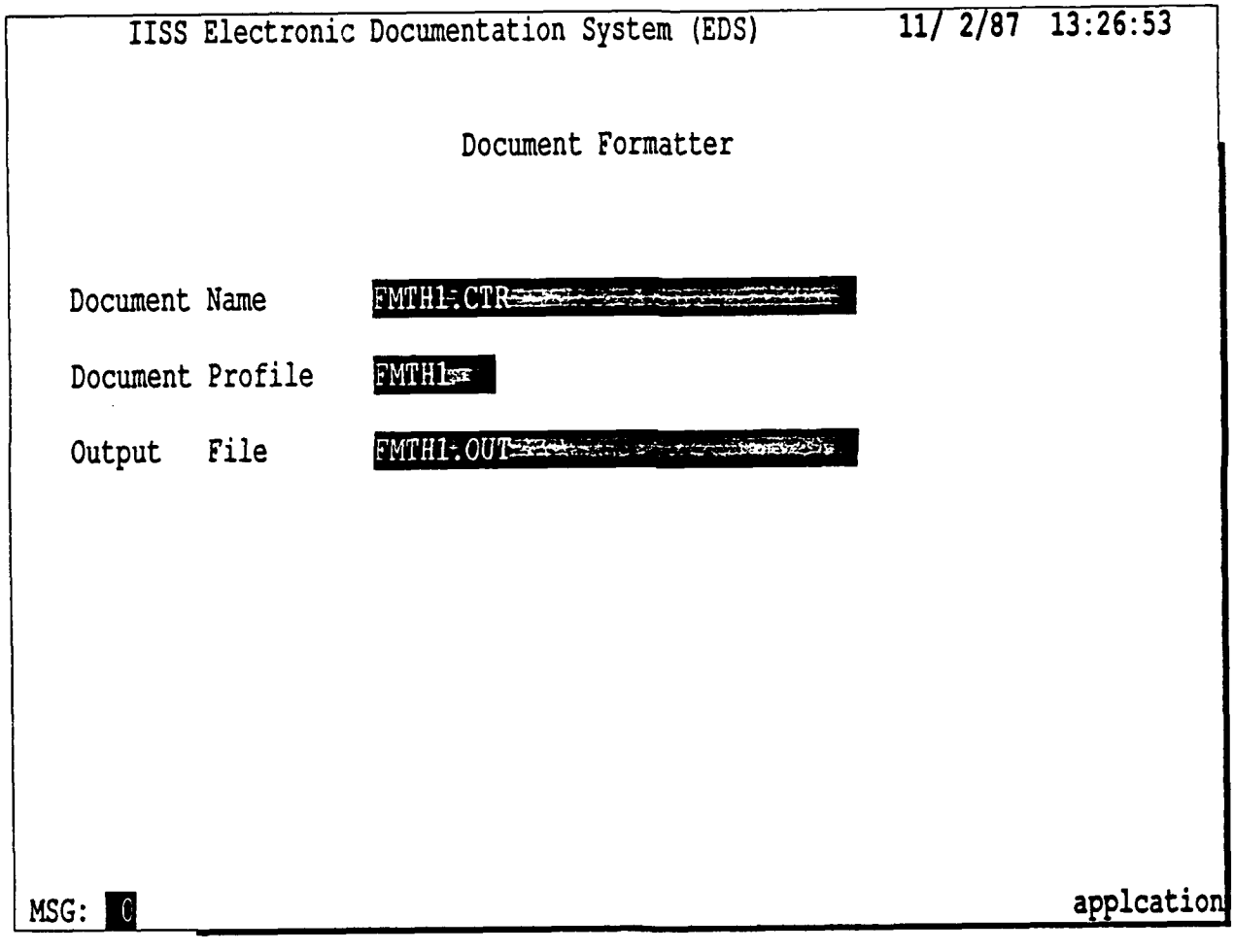

Figure 5-96 Document Formatter Input Form for TEST H1

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Header Test)</tstnam>
<tstno>Test H1</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-97 Header Test

xxx
x
x

DUMMY

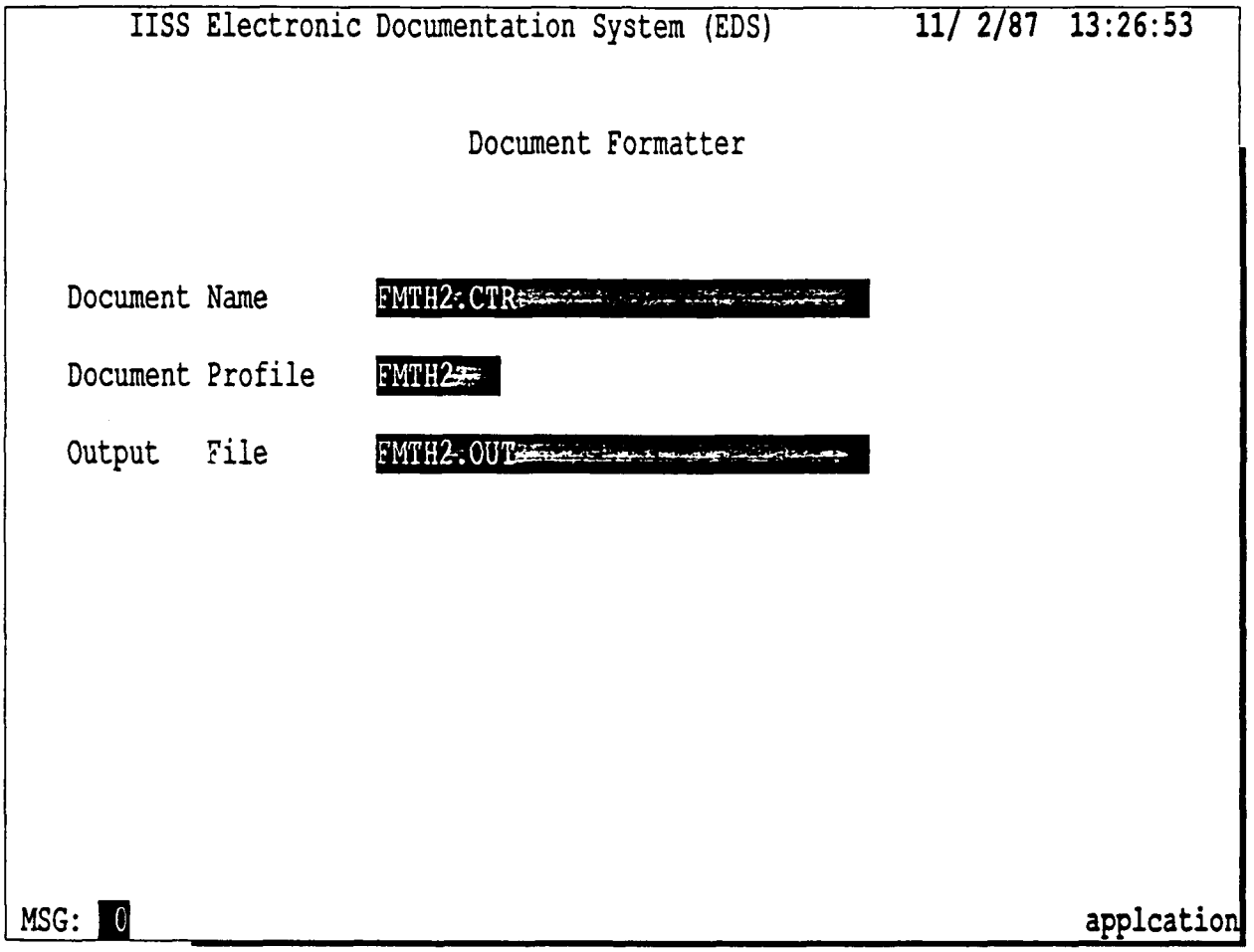

Figure 5-98 Document Formatter Input Form for TEST H2

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Footer Test)</tstnam>
<tstno>Test H2</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-100 Footer Test

xxx
x
x

DUMMY

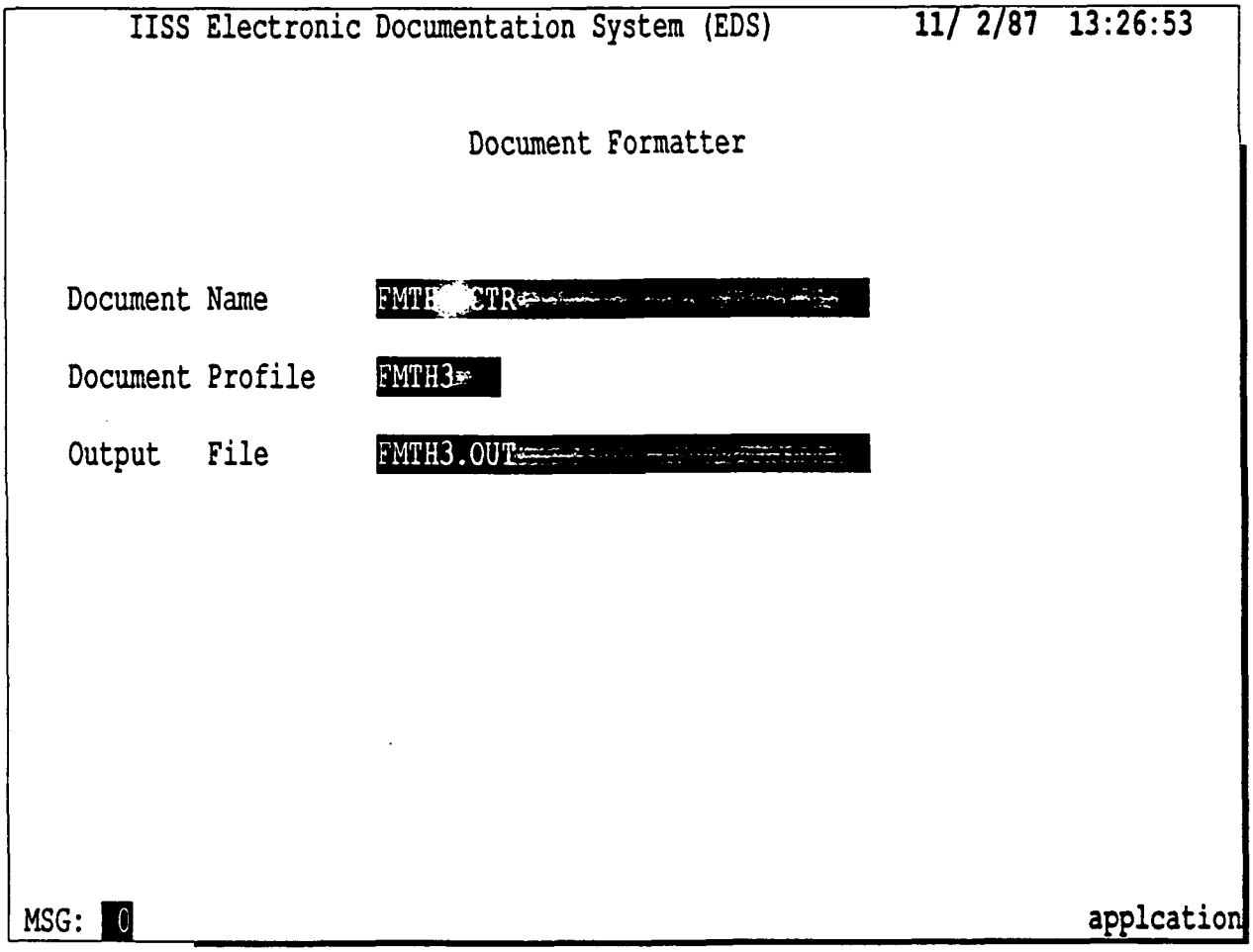

Figure 5-102 Document Formatter Input Form for TEST H3

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Footer Page Number Test)</tstnam>
<tstno>Test H3</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-103 Page Number Test

xxx
x
x

DUMMY

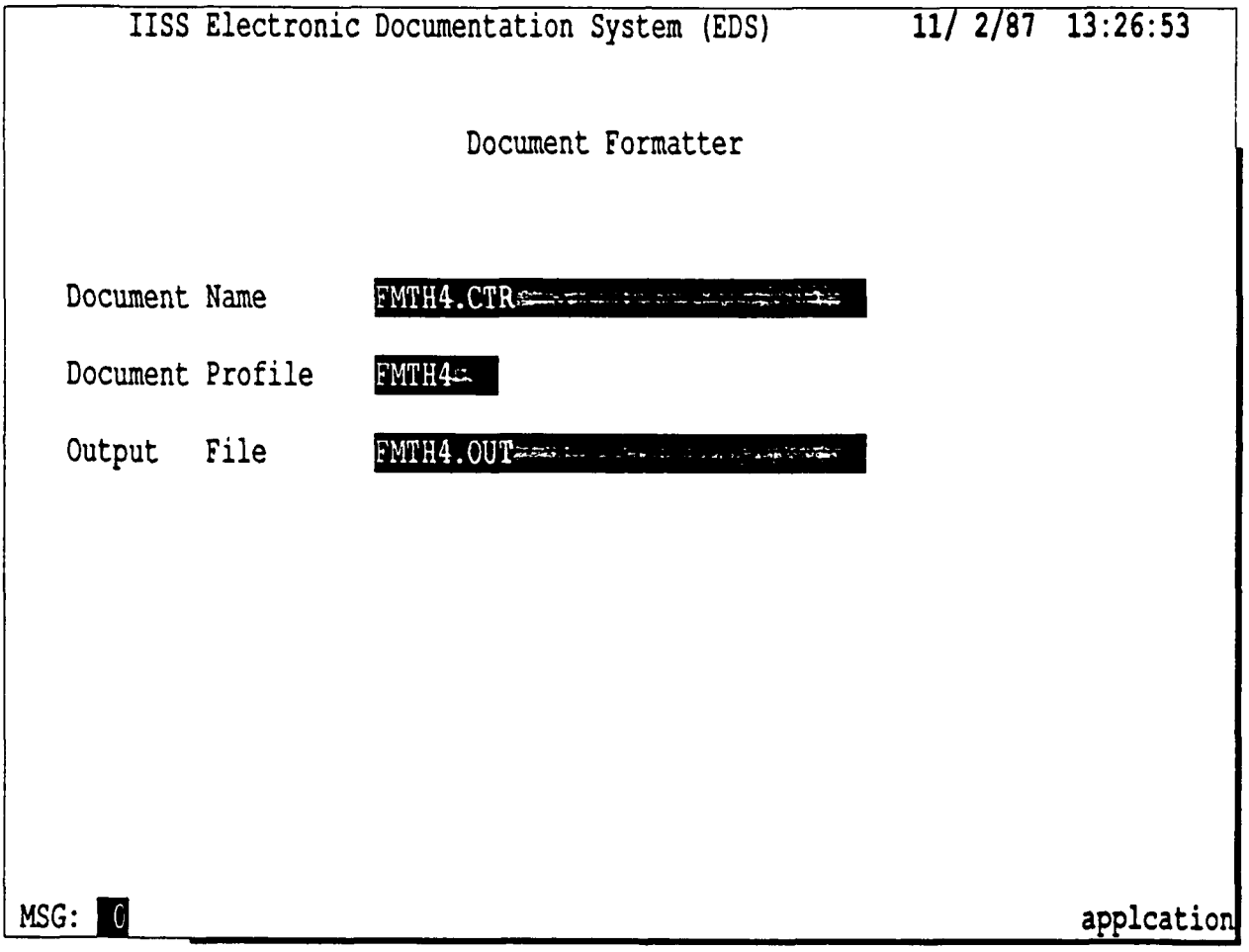

Figure 5-105 Document Formatter Input Form for TEST H4

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Header Date Test)</tstnam>
<tstno>Test H4</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-106 Date Test

xxx
x
x

DUMMY

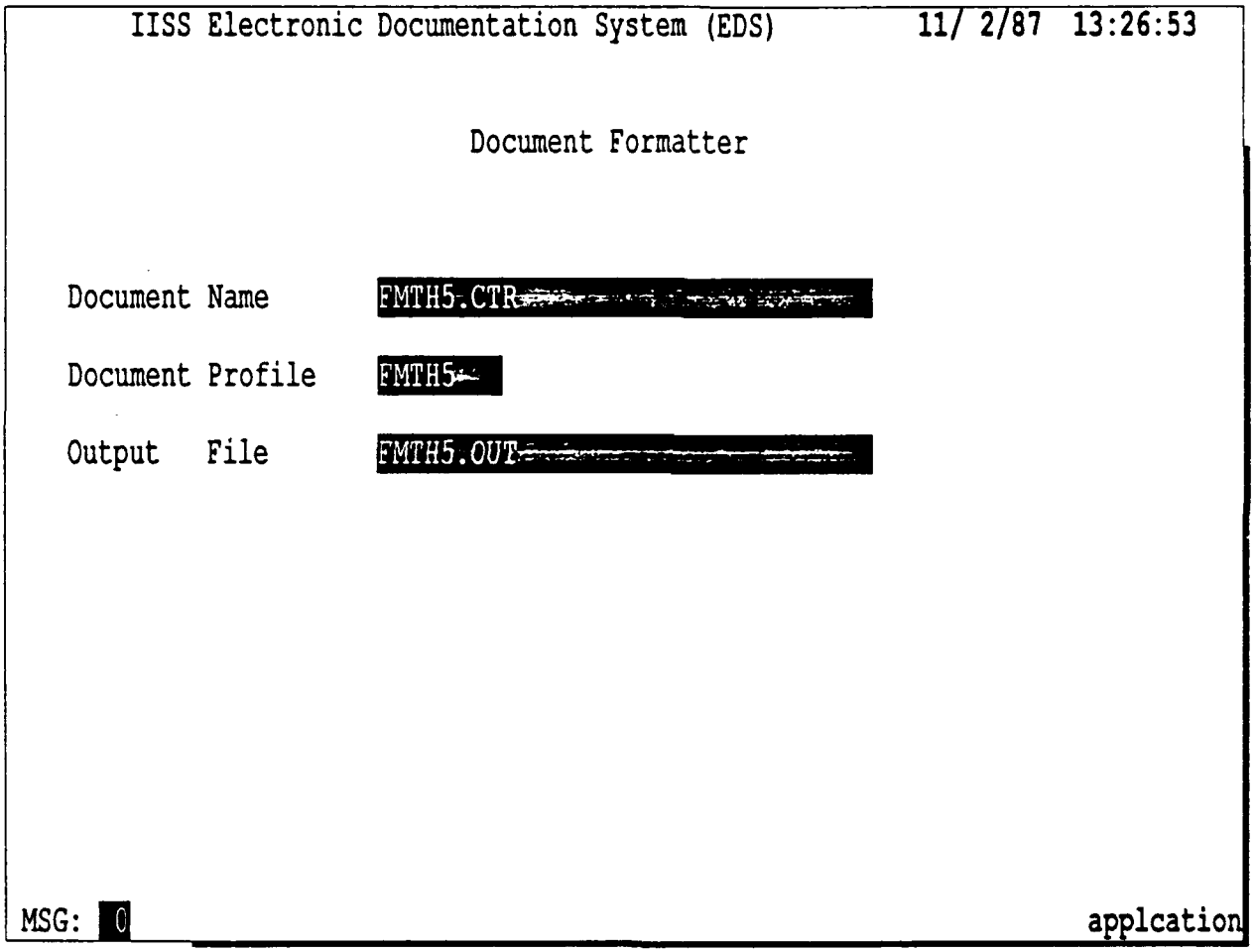

Figure 5-108 Document Formatter Input Form for TEST H5

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Header Underline Test)</tstnam>
<tstno>Test H5</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-109 Header Underline Test

xxx
x
x

DUMMY

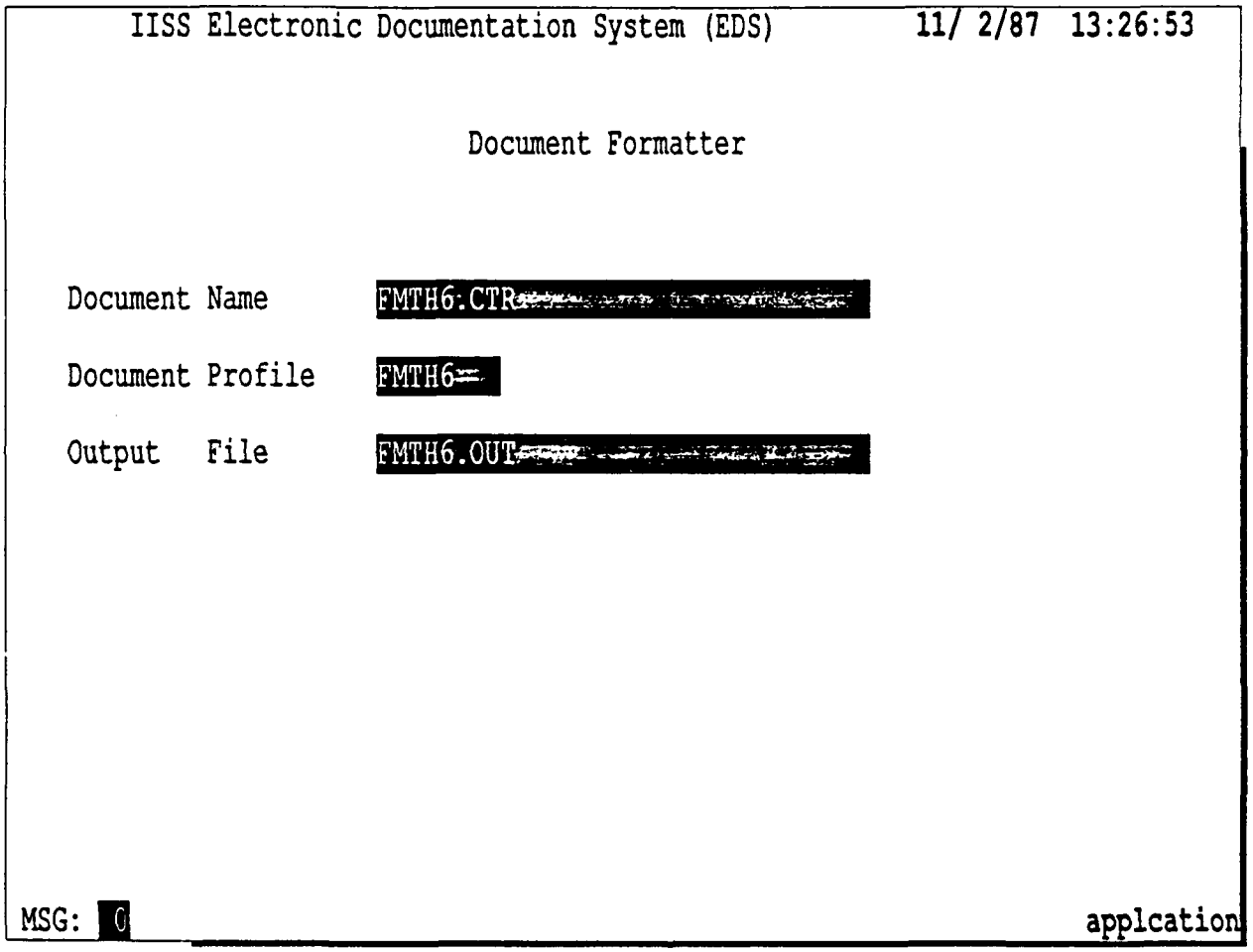

Figure 5-111 Document Formatter Input Form for TEST H6

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Header Center Test)</tstnam>
<tstno>Test H6</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-113 Header Center Test

xxx
x
x

DUMMY

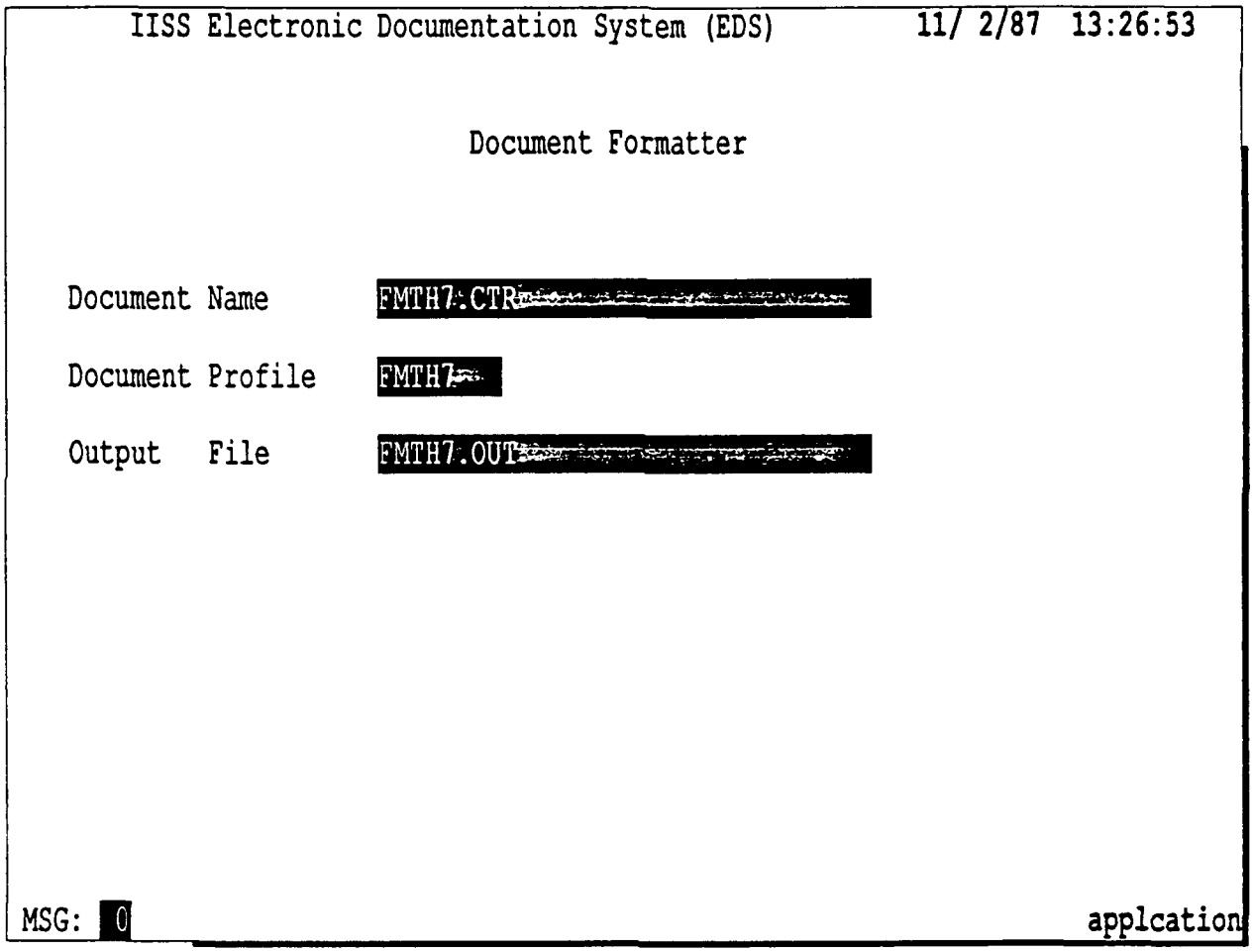

Figure 5-114 Document Formatter Input Form for TEST H7

```
<edsutp>

<test>
<tstnam>EDS Document Formatter - (Header Right Justify Test)</tstnam>
<tstno>Test H7</tstno>
</test>

<p0>This is a test document for the EDS Unit test plan.  This document
contains a number of different logical elements which will be processed
by EDS application programs.</p0>

<p0>This is a test document for headers and footers.</p0>

</edsutp>
```

Figure 5-115 Header Right Justify

xxx
x
x

DUMMY